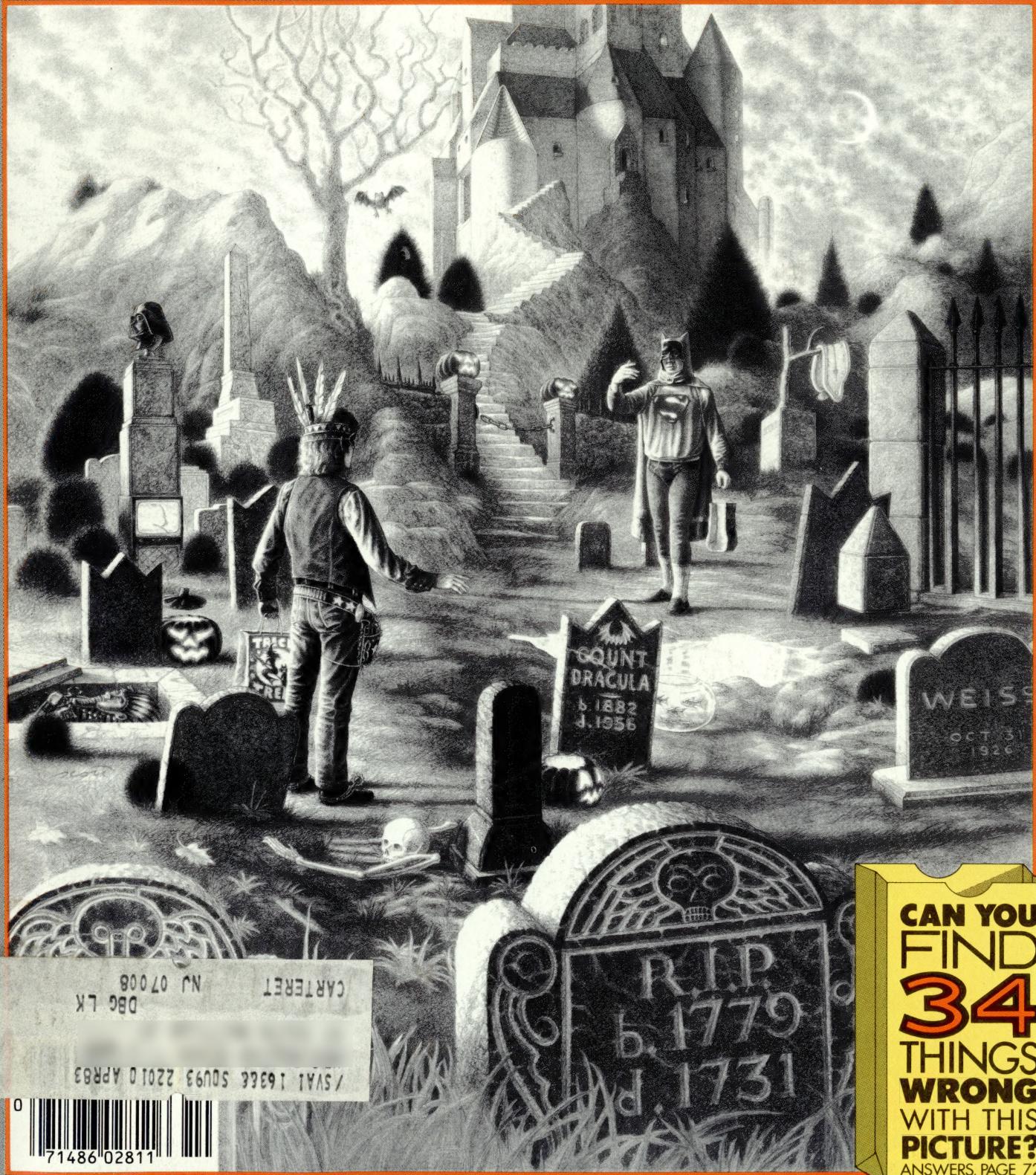


October 1982

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AMES



CAN YOU
FIND
34
THINGS
WRONG
WITH THIS
PICTURE?
ANSWERS, PAGE 72

Break tradition.

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After all, Ronrico is the spirit of Halloween. It's light and smooth, with a distinctive flavor that more than holds its own.

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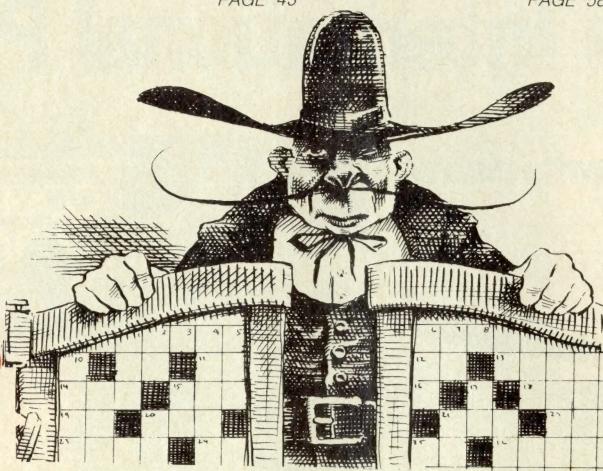
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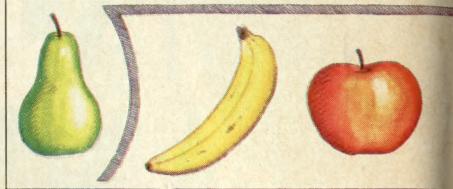
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Difficulty Rating Smooth Sailing ★

Uphill Climb ★★

Proceed at Your Own Risk! ★★★

Mixed Bag ★☆

Cover Illustration Greg Scott

Cover Subtitle Undrea Harris



SONY EVEN LETS YOU PLAY THE FLIP SIDE OF THE TAPE WITHOUT HAVING TO DROP WHAT YOU'RE DOING.

Ironically, as advanced as cassette decks are, they still present one age-old problem. When one side is finished you have to literally stop what you're doing and turn the tape over.

And while most manufacturers have at one time or other offered decks with auto reverse, the auto reverse on the Sony TC-FX500R does something unusual.

It doesn't stick, or jam, or cause inaccurate tape-head alignment, so it doesn't replace one annoyance with another. With the new Sony 500R you're assured years of uninterrupted listening pleasure.

But what makes the 500R even more pleasurable is the quality and ease of operation.

Put in any tape and the auto tape selector instantly adjusts for the proper tape type.

Dolby's latest noise reduction system, Dolby C, makes another significant annoyance — tape hiss — a thing of the past.

Because Sony equipped the new 500R with its unique LaserAmorphous head design, you not only get higher highs and lower lows, but greater definition and clarity in the sound as it changes from soft to loud, or vice versa.

The convenience features are all state of the art, like the feather-touch controls that respond to the slightest finger contact for fast, effortless function selection. The Automatic Music Sensor eliminates

the need to hunt and search for your favorite musical selection. And still another time-saver, the "blank skip," automatically takes you to the unrecorded portion of the tape.

In other words, the 500R contains everything you need to make superior recordings, effortlessly, every time.

And Sony did more than just make all this technology possible, they made it eminently affordable.

So the next time you're entertaining guests, having a nice romantic evening, or just trying to master an elusive dance step, consider how much more enjoyable it'll be, thanks to the masterful engineering in the new 500R from Sony.

SONY The one and only.

FEATURES AND SPECIFICATIONS: 8-segment LED meters. Optional RM-70 remote control, RM-65 synchronizer. S/N ratio 59dB (type III tape, Dolby off). Wow & flutter 0.05% (WRMS). Frequency response 30Hz-17kHz ± 3 dB (metal tape). Sony Corporation of America, Sony Drive, Park Ridge, New Jersey 07656. © 1982 Sony Corp. of America. Sony is a registered trademark of the Sony Corp. Dolby is a registered trademark of Dolby Laboratories.

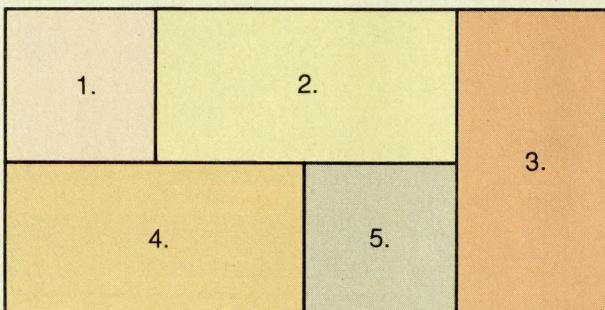
Fielder's Choice ★★

The city cousin stood in the middle of the barren field and asked his country cousin what he grew in it. The country cousin replied, "I plant five crops, one in each of five fields. We are standing in field five. From the following information and clues, you should be able to tell me."

1. "I grow soybeans in one of the

smaller fields.
 2. "I don't grow corn in a field next to the wheat field.
 3. "I grow soybeans in a field next to the corn field.
 4. "I don't grow barley in a field next to the wheat field.
 "Where do I grow oats, and what do I grow here in field five?"

Bill Dace
Hilo, HI



Word Powers ★★

Listed below are 10 very common words that have rarely used definitions. Can you match each with its sixth, seventh, or eighth dictionary meaning?

1. bad	a. coincide, agree
2. bays	b. stupid, foolish
3. beard	c. shrivel, wither
4. blast	d. oppose with boldness
5. fat	e. sorrowful, sorry
6. get	f. fashion or frame
7. hand	g. skill, ability
8. jump	h. honor, fame
9. low	i. flame, blaze, glow
10. throw	j. progeny of a male animal

Karen Graff
St. Louis, MO

Guess Who's Coming to Dinner at Eight? ★★

This whimsical title is a combination of the titles of two films. Who can create the title of an imaginary film using the greatest number of real titles? The last word of each film must be the first word of the next, and only films of at least two words are admissible. Remember, it's the number of titles and not the number of words that counts.

Here's a starter: *My Fair Lady*
Sings the Blues in the Night of the Living Dead (4).

Richard Schutz
Philadelphia, PA

A game from our library for the most titles in a chain, and another for the funniest combination. Entries must be received by November 15.—Ed.

Shuffling Off ★★

A card shuffling machine shifts every card placed in it and always rearranges cards in the same way. This does not mean that all cards are shifted the same number of spaces, but that each card in a certain position will always shift to another specific position. (For example, the 16th card might always wind up in the 14th position after shuffling.)

Take all the spades, arrange them in ascending order (ace, 2, 3, . . . J, Q, K), place them in the machine and shuffle them, and then run the shuffled cards through the machine again. If they come out in the following order—2, J, 5, 7, 9, 8, 6, 3, A, K, Q, 10, 4—what order were the cards in after the first shuffle?

Mark Kantrowitz
Brookline, MA

Your Move is an occasional column of comments and puzzles by readers. We pay \$15 and up for each item published. Manuscripts may be edited for clarity, and none can be returned unless accompanied by a stamped, self-addressed envelope. Please don't send crosswords, cryptograms, word searches, or any other type of puzzle we publish regularly.

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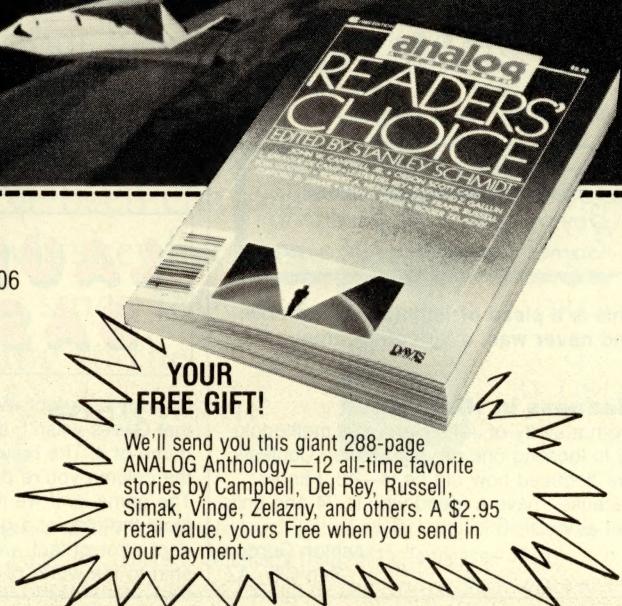
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LETTERS

Numbers for Naught

Finally I've found and solved a Hidden Contest. I challenge the editors and computerless mathemagicians to prove me wrong. The challenge was to find the 97-digit number that Lenstra and Cohen proved prime in 77 seconds (Gamebits, July/August, page 12). Well, here it is—thank goodness I graduated with a degree in math. The number is: 1,532,081,210,934,376,745, 700,120,857,311,074,815,431,342,505, 060,331,248,653,517,821,688,612,074, 993,090,648,241,392,772,249,201. Incredibly enough, the digits in this number correspond to my driver's license number, social security number, birthdate, address numbers, phone numbers, high school and college student I.D. numbers, all prefixed by the number of Hidden Contests I have solved.

Barbara Montgomery
Mt. Morris, MI

Envelope of the Month



Pat Haenlein
Saginaw, MI

Oops. About 40 readers of the July/August Your Move—recounting John Hanrath's fictitious adventures in search of the March/April Hidden Contest—thought the imaginary scrap of paper that Hanrath "found" and we reproduced was itself a Hidden Contest. Sorry. There was no Hidden Contest in July/August. But just to be sporting, we've sent T-shirts to five "entrants" drawn at random. Now, get out your flashlights, put on your sleuth suits, and find the real Hidden Contest this month.—Ed.

Hidden Contest

Boy are you smart. Send in to Games Magazine right away!

This is a piece of fiction. It is not now, and never was, a Hidden Contest.

Madness in His Method

From a study of John Hanrath's methodology in locating one of your Hidden Contests, I've deduced how old he is—48. I know because I have a friend who is 24 and only half as nuts!

Ashton Gordon
Sun City, AZ

S.O.S.

You are my last hope at solving a particular word equation that has stumped every one I know: 110 = F for the LLF. My kingdom for the solution.

Jamie Pilson
Nutley, NJ

This one has all of us stumped too. Anybody else?—Ed.

What's Up, Dock?

Frank Magary's challenge about words ending in C needing a K for suffixes (Letters, July/August, page 6), led me on a search through an unabridged dictionary. After a few minutes, I found DISCING and TALCER to add to Mr. Magary's ARCED. My guess that a consonant ahead of the C would obviate the K was contradicted by TALCKY. So much for the serious mental challenge.

Consider Bugs Bunny's persistent "What's up, Doc?" One could say that Bugs Bunny was endlessly docing Elmer Fudd, and therefore, with the addition of a K, that Bugs, stalwart sailor that he is, was always practicing steering a peculiarly named boat to the pier.

Paul Yearout
Provo, UT

Keys to the Castle

Your Sand Fantasies (July/August) were beautiful, and the most stunning was the re-creation of 17th-century Heidelberg. But I didn't realize just how incredible it was until I noticed the people standing in the upper left corner of the picture. They gave me a sense of the immense size of this sand castle-city. My co-workers and I would love to know and see more of this creation. Were any other pictures of Old Heidelberg taken?

Robert Moyse
Fairless Hills, PA

You'll find more pictures of Heidelberg and other sand creations in "Sandcastles" (Doubleday), by Joe Allen and Marshall Harrington, who also wrote and photographed our article.—Ed.

LAUNDRY BASKET

Nobody's perfect. We learned long ago that GAMES wasn't, and decided to make a game of it. The result is Laundry Basket, the column you're probably reading now. The game is: If we make a mistake that affects the play of a game or print a significant error of fact, we'll send a GAMES T-shirt to the writer of the first or best letter

that points out the mistake.

Naturally, this invitation has attracted a lot of mail. But because there were no mistakes in the September issue, we decided to use the space this month to elaborate on the rules of the Laundry game and to give some pointers on how to extract a T-shirt from us.

First, to define a significant error of fact: If we misspell somebody's name in a puzzle *clue*, it's wrong, but it's just as likely a typo as an error of fact. We'll launder it if we have nothing worse to take care of. However, if a misspelled name is the answer to a clue or a part of the solution to a puzzle, this affects play and is quite definitely launderable.

Giving an incorrect date or definition, or otherwise mixing up a puzzle, is also a major mistake. For example, if we confused Tweedleum and Tweedledee (Logic, page 12), or took a hippo for a rhino (Eyeball Benders, page 58), we would clearly be guilty of launderable errors. If we misnumber the answers to a puzzle or list them in the wrong order in the Answer Basket, this is launderable, too—but you can be sure you're not the first to find it. When we (appropriately enough) listed the answers to "Incompetance Strikes Again" (November/December 1979) in the wrong order, thousands of readers pointed it out.

Savvy readers turn to certain parts of the magazine in search of likely mistakes. It pays to look for items that involve dates, science, and trivia, since these are the areas in which it's easiest to goof. But remember that a certain amount of poetic license is given to puzzle constructors—they are, after all, trying to disguise the answer. If a clue seems odd to you, it may be intentional.

If you spot a mistake in an ad, by all means tell us about it, but don't expect a T-shirt—we didn't do it. Our Fake Ads, on the other hand, are usually so outrageous as to be virtually Laundry-proof.

If you see a solution to a puzzle that's more elegant than the one in the Answer Drawer, or an extra answer to a collage or "find-it" type puzzle, send it to Eureka, not Laundry Basket. (For example, hungry readers filled Eureka with alternate answers to May/June's "Fat Farm" last month.)

When it comes to writing your letter, assume that someone else has also spotted the mistake you have found. This means you should put some starch in your effort—we prefer to print the most interesting or amusing entry. And, of course, the earlier we receive your letter the better.

Finally, be aware that everyone has his own rules about laundry—including us. Sometimes, something may technically be dirty and need a washing but we decide to wear it again anyway. This is the case when we give the wrong page reference in an Answer Drawer line, an annoying mixup that results from shuffling pages around in the magazine at the last minute.

And just as everyone has one laundry task he likes least (such as sorting socks), we have our own intense dislike—laundering Laundry Basket. So we've carefully listed all mistakes in this advice in the Answer Drawer, page 68.—Eds.

EVENTS

Before attending any of these events, write or call to verify dates, places, eligibility, entry fees, etc. Send a stamped, self-addressed envelope with your request.

Ballooning 11th Annual World Hot Air Balloon Championship, in Albuquerque, New Mexico, October 2-10. Nearly 600 balloonists are due to take off, soar, and touch down in this week long centennial celebration. Contact: International Balloon Fiesta, 3300 Princeton N.E., Suite 24, Albuquerque, NM 87107, or call (505) 883-0932.

Carton Racing The Great Milk Carton Boat Race, in Redwood City, California, October 23. For the seventh consecutive year, competitors will race milk-carton crafts 'round the lagoon at Marine World. It's only a paper fleet, but with a \$3,500 purse. Contact: Julie Fiedler, Marine World, Marine World Pkwy., Redwood City, CA 94065, or call (415) 591-7676.



Chess The U.S. Class Championships will be held in Chicago, October 15-17. Five classes of players from novice to master will meet and (check)mate in this five-round, Swiss-style tournament. An \$8,000 purse and national titles are at stake. Contact: USCF, 186 Rte. 9W, New Windsor, NY 12550, or call (914) 562-8350.

Computer Graphics First Annual Pacific Northwest Computer Graphics Conference, in Eugene, Oregon, October 25-26. Billed as a multi-disciplinary view of the state of the art, the conference will feature new applications in science, business, architecture, communications. Contact: Computer Graphics Conference, 111 Susan Campbell Hall, University of Oregon, Eugene, OR 94703, or call (503) 686-5555.

Frisbee Goodwill Frisbee Fling, to be held in New York's Flushing Meadow Park and Bridgeport, Connecticut, October 2. More than 2,500 two-player teams will toss discs for the benefit of Goodwill Industries. Find a partner and sponsors, and you too can get in the fling. Contact: Bonnie Sirower, Goodwill, 4-21 27th Avenue, Astoria, NY 11102, or call (212) 728-5400.

Map Dash October 27 is the entry deadline for the Third Annual Maltese Circum-global Trophy Dash (for details, see September Events). Completed courses are due in early November, so act fast. Contact: Trophy Dash, Box 53, La Canada, CA 91011, or call (213) 790-4937.

Othello International Othello Championships, in Stockholm, Sweden, October 23-24. The winner of the U.S. Open (See Gamebits, page 10) will compete with champs from 10 European countries for the world title and cup. Contact: U.S. Othello Assn., Box 342, Falls Church, VA, or call the Othello hotline, (212) 683-7810.



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Occasionally, you'll see a piece on Jack Daniel's Distillery. Like when Jack Bateman broke his arm rolling barrels to the warehouse. Or when Frank Bobo (our head distiller) had his grandson born. But normally we don't make the paper much. You see, we've been charcoal mellowing whiskey here at Jack Daniel's since 1866. And according to the editor, there's no news in that anymore.



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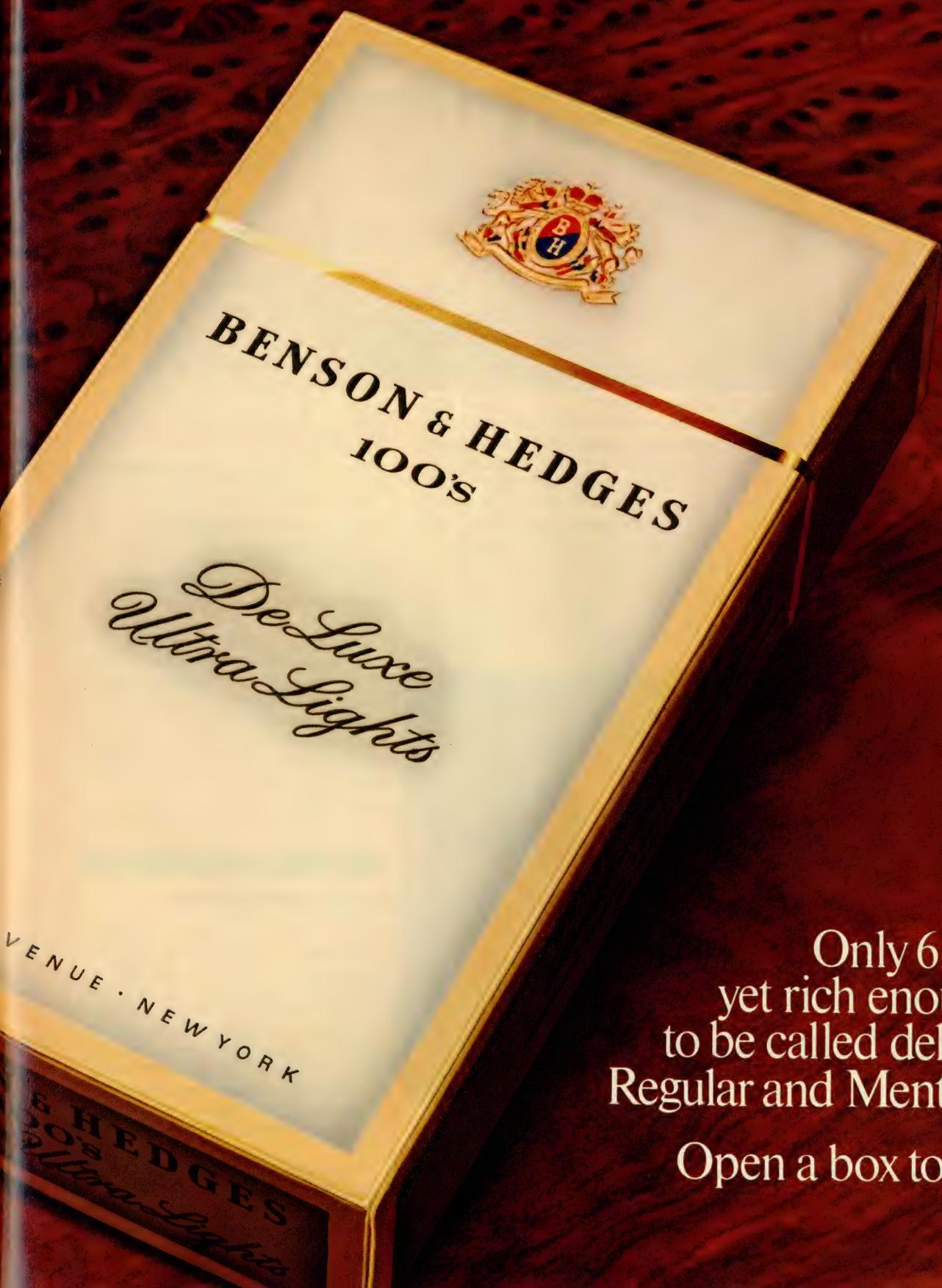
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GAMEBITS

Edited by Curtis Slepian

Wholey-Grams

New York has 123 museums, but none is more off-the-wall—both literally and figuratively—than the Museum of Holography. Holograms are three-dimensional photographs that you can enjoy without wearing those nerdy red and blue glasses. They also give the illusion of motion, but instead of showing fiery tomahawks and charging lions that were the staple of 3-D movies in the 1950s, holograms generally tend toward peaceable subjects, like gladiolus wafting in the wind, flickering candles, or Marcello Mastroianni lighting a cigarette. And unlike conventional movies, the viewer provides the motion as he walks from left to right around semicircular or circular panels bearing images of speeding locomotives, a pretty lady blowing a kiss and flashing a wink, or Count Dracula noshing on a girl friend (it isn't

all that peaceable).

How's it done? To produce a hologram—also called a "lenseless photograph"—a beam of laser light is optically split in two. A "reference beam," containing about 10 percent of the light, is expanded through a lens and reflected by a mirror toward a holographic film plate. The much brighter "object beam," which is simultaneously aimed at the subject of the hologram, carries information about the subject's shape and size. The beams

converge at the holographic plate to create an "interference pattern" that, when developed and backlit by ordinary white light, produces images that seem to float over, under, around, and through the picture itself.

Open since 1976, the two-story Museum of Holography displays temporary exhibits along with such permanent-collection standbys as "In Perspective," a visual history of holographic art and science, and the "Hol-O-

Fame," featuring portraits of multi-dimensional New Yorkers like Andy Warhol, William F. Buckley Jr., Arthur Ashe, and Big Bird. And although holography is thought to have great commercial potential in the fields of promotional display, industrial design, and medical research, it also promises less serious applications: In a machine called "Gun Smoke," players wage quick-draw battles with holographic desperados.

Located in a decidedly unmuseumlike firehouse-red building in the heart of SoHo, the museum is open five days a week. Call (212) 925-0526 for information on current exhibitions and special events. To order a catalog write to: Museum of Holography Bookstore, Mail Order Department, 11 Mercer St., New York, NY 10013.

—Theodore Fischer



Victory is sweet when you're vying for the coveted Othello cup—cup cakes, that is. Former world Othello champ Jonathan Cerf (seated, left) and current U.S. Othello titleholder Brian Rose celebrate the third anniversary of the U.S. Othello Association, as Association Directors George Sullivan (standing, right) and John Stoner watch hungrily. Rose and a bevy of other top Othello players will be competing for the 1982 U.S. title in Washington, D.C. this October.

A Second Chance

In case you haven't done so already, please set your watch ahead one second. These are the instructions from the Bureau Internationale de l'Heure in Paris, the folks whose time calculations are always up to the second.

Why the little leap forward, the 11th such in 10 years? Because the second is, in part, measured by the time it takes the earth to revolve around the sun. And it seems the earth is slowing down.

So you'd better make the change now: You don't have a second to spare.

—Ruth Podems

Bound for Glory

Some readers think Joseph Conrad's novels are tough sledding, but this set of his works will really have you muttering "Oh, the horror." The 24 hand-bound volumes shown below use a "numbering" system that's a librarian's

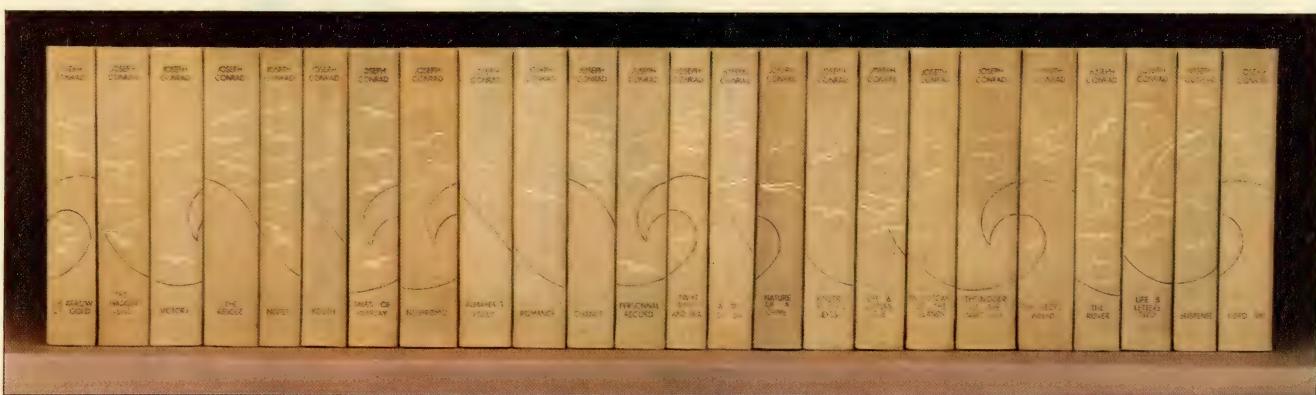
nightmare—and a puzzler's delight.

The creator of this ingenious design is master bookbinder Denis Gouey, who practices his nearly lost art in a small workshop, redolent of leather and paste, overlooking Union Square Park in New York. A transplanted Frenchman, Gouey restores such rare and valuable books as a Steinbeck first edition and a Samuel Johnson dic-

tionary with old-world craftsmanship.

And, as the Conrad books attest, Gouey possesses plenty of panache: "I have always wanted to create an artist's drawing book in the shape of a palette, with leather hands on the top and bottom covers. And I once had an idea to do a book entirely out of plexiglass. Unfortunately, somebody beat me to it."

—C.S.



Can you decode the binding design and arrange the books in their correct sequence? Answer Drawer, page 66

Working Capitol

The demand for jobs in Washington has prompted Gregg Easterbrook, a contributing editor to the gadfly magazine *The Washington Monthly*, to devise a new entrance exam: the D.C.A.T. Not to be confused with the S.A.T. or the L.S.A.T., the D.C.A.T. is a prerequisite to Washington jobseeking and promises to weed out Capitol Hill undesirables.

Below are a few sample questions. If you can answer all of them correctly, you probably qualify for a lifetime of doublespeak, overspending, and three-martini lunches.

1. "Seasonally adjusted" means:
 - In winter we drink whisky, in summer gin and tonics.
 - People don't mind being unemployed as long as it's warm out.
 - People don't mind being unemployed as long as economists predicted it.
 - If it's an election year, somehow the figures will look much better.
2. Below is a passage from the *Federal Register*. Choose the sentence that most nearly expresses its meaning: "Preliminary Draft Notice: Pursuant to Title XXXVI of the Airport Reforestation Act, all personnel not specifically excluded will henceforth, in accordance with circular AA/2-0778, await publication of further instructions."
 - All applicable procedures, except those not applicable, are no longer applicable.

- Subsection-D waiver requests must be routed through the Office of Simultaneous Noncompliance.
- In case of fire, break your glasses.
- Post communem considerationem de virtutibus et vitiis aliis ad materiam moralem pertinentibus, necesse est considerare singula in speciali.
- On a Washington street, Fred encounters a crippled woman holding an emaciated child. She asks for a dollar. Fred should ...
 - give her nothing, because handouts will only prevent her from taking one of the many aerospace engineering jobs listed in the Sunday want ads.
 - give her the dollar and advise her to invest it in a steel plant.
 - give her the dollar, then go on national television to proclaim that private charity is more responsive than government programs.
 - break her cane, steal her purse, and squirt the kid in the face with ketchup.
- Supply-side economics holds that the poor have too much money, while the rich don't have enough. It also holds that large tax cuts, increased defense spending, and budget balancing are not mutually contradictory. What are the other important elements of supply-side theory?
 - Placing teeth under the pillow is an effective capital-formation strategy.
 - Copper bracelets cure arthritis.
 - If everyone claps his hands, Tinkerbell will fly again.
 - You can travel to Kansas by repeating the words "There's no place like home."
- Pamela wishes to obtain a job as Washington correspondent for a major television network. She should practice ...
 - standing on the White House lawn.
 - standing on the Capitol lawn.
 - standing on the Ellipse and shouting "I think I see the helicopter!"
 - saying, "Still, it's too soon to tell. One thing is certain, though: Life goes on."



Stop

Scoring: Only a perfect score is passing. Those who score perfectly may conduct fact-finding tours, publish op-ed pieces, or write off the cost of lunch. Those scoring less must get married and settle down in Topeka.

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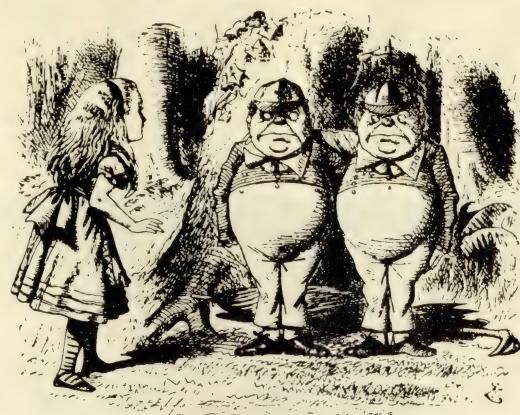
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LOGIC ★★



Tweedledum or Tweedledee?

This year marks the 150th anniversary of the birth of Lewis Carroll, and logician Raymond Smullyan has come up with a fitting tribute: a book of puzzles based on the adventures of Carroll's Alice. This excerpt from "Alice in Puzzle-Land" finds our heroine confronting the beguiling brothers Tweedledum and Tweedledee.

Just then Alice practically stumbled on Tweedledum and Tweedledee, who were grinning under a tree right by their house. Alice looked carefully at their collars to see which was marked "Dum" and which "Dee," but neither collar was embroidered.

"I'm afraid I can't very well tell you apart without your embroidered collars," remarked Alice.

"You'll have to use logic," said one of the brothers, giving the other an affectionate hug. "We were expecting you to come around, and we have prepared some nice logic games for you. Would you like to play?" At this point he pulled out a playing card from his pocket—it was the queen of diamonds—and showed it to Alice.

"As you can see, this is a red card. Now, a red card signifies that the one carrying it is telling the truth, whereas a black card signifies that the speaker is lying. Now, my brother there is also carrying either a red card or a black card in his pocket. He is about to make a statement. If his card is red, he will make a true statement, but if his card is black, he will make a false statement. Then your job is to find out whether he is Tweedledee or Tweedledum."

Round 1 At this point, the other brother said, "I am Tweedledum, and I am carrying a black card." Alice had little difficulty in figuring out who he was. Who was he?

"Congratulations!" said both brothers at once, each shaking one of Alice's hands. "You have won the first round!"

"Now, for the next two rounds," said the first brother, "before each round we both disappear into the house, where we have a pack of cards. We go into a huddle, then each one of us puts a card in his pocket, comes out, and makes a statement. You must then figure out which one he is."

"Will he be carrying the same color card as in the last round?" asked Alice.

"Not necessarily," was the reply.

Round 2 The brothers then went into the house, and, shortly after, one emerged with a card in his pocket and said, "If I am Tweedledum, I am not carrying a red card." Alice found this considerably more difficult than the first puzzle, but she finally managed to solve it. What is the solution?

Round 3 In this round, a brother came out and said, "Either I am Tweedledum, or I am carrying a black card." Who was he?

"Very good!" he said to Alice. "You solved that one very nicely! Now the next round of this game is more complicated: I go into the house, my brother and I go into a huddle, and then both of us emerge, each with a red or a black card in his pocket. Our cards might be

ILLUSTRATION BY SIR JOHN TENNIEL FROM LEWIS CARROLL'S THROUGH THE LOOKING GLASS

of the same color, or of different colors. Then we *both* make statements. You will have to take both statements into account to figure out who we are."

Round 4 The brothers went into the house and came out shortly after. One of them—call him the first one—stood to Alice's left, and the other—call him the second—stood to Alice's right. Then they made the following statements:

FIRST ONE: My brother is Tweedledee, and he is carrying a black card.

SECOND ONE: My brother is Tweedle-dum, and he is carrying a red card. Which one is which?

Both brothers congratulated Alice warmly for having won every round. "Now comes the best game of all, and if you win it, you also win a prize!" said Tweedledee. "We will go into the house and will each come out with either a red or a black card in his pocket. Again, red signifies truth and black signifies lying. One of us has a prize in his other pocket. If you can guess which has the prize, you get it. It is not important now which of us is Tweedledee and which is Tweedle-dum; your job is to find out which one has the prize.

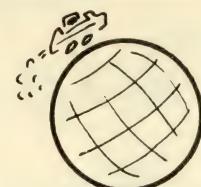
"When we come out of the house, you point to one of us and ask him a question—answerable by yes or no. But instead of answering yes or no, he will answer in sign language: He will draw either a square or a circle in the air. If he is carrying the prize, then by a square he means yes and by a circle he means no. On the other hand, if he is not carrying the prize, then by a square he means no and by a circle yes. On top of that, he might be telling the truth or he might lie—this is determined by whether he is carrying a red or a black card."

Round 5 The brothers then went into the house. After a while they came back out. Alice asked one of them a question and he replied by drawing either a square or a circle in the air. Alice pointed to one of them and said, "You have the prize." Alice was right. How, in one question, could Alice find this out?

"Congratulations again!" said both brothers. "You have certainly earned your prize!" The prize consisted of a pencil and a beautiful brand-new memorandum book. *Answer Drawer, page 66*

From *Alice in Puzzle-Land* (William Morrow and Company, Inc.), copyright 1982 by Raymond M. Smullyan.

ANNOUNCING



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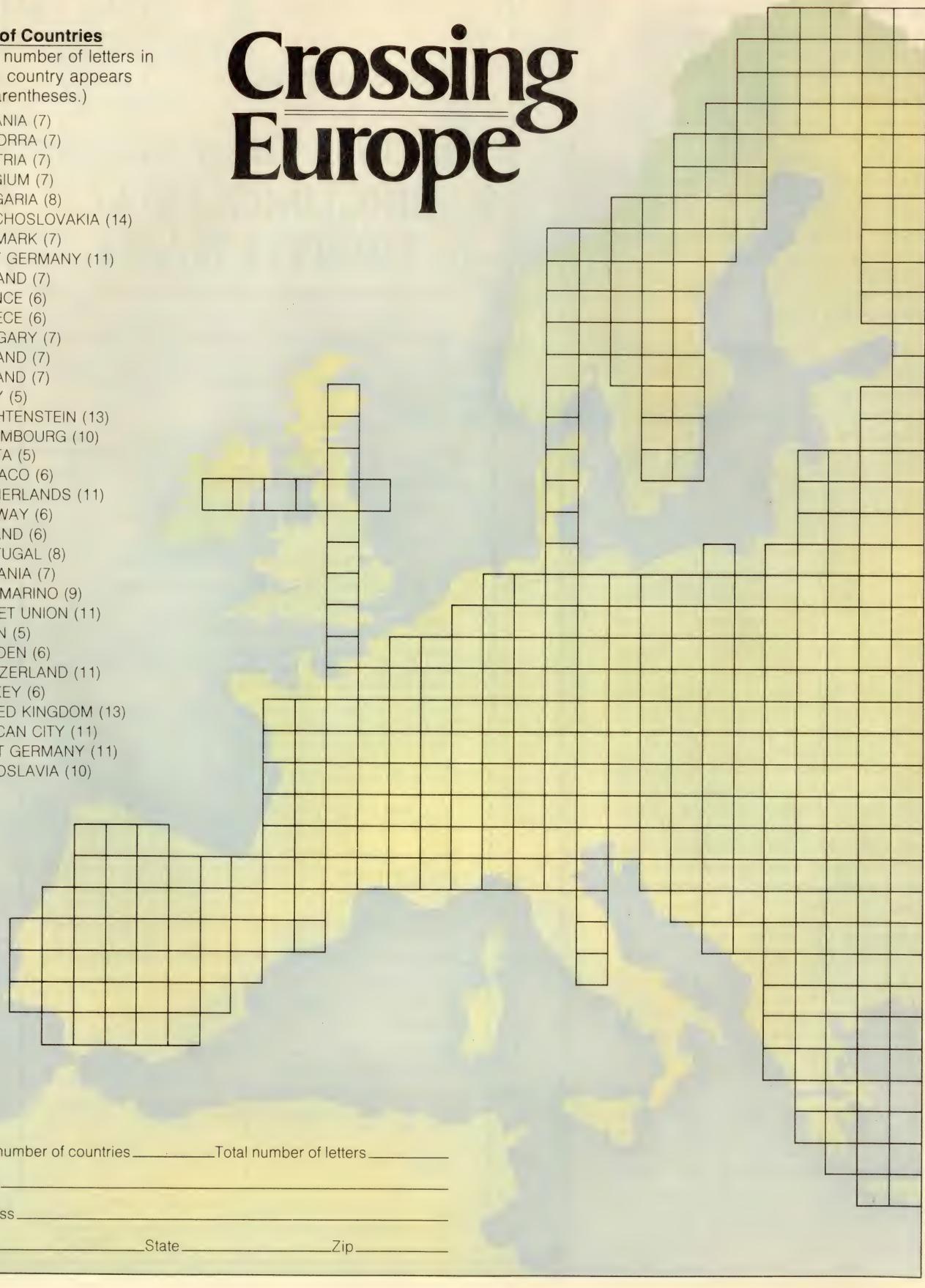
GAMES CONTEST ★★

List of Countries

(The number of letters in
each country appears
in parentheses.)

ALBANIA (7)
ANDORRA (7)
AUSTRIA (7)
BELGIUM (7)
BULGARIA (8)
CZECHOSLOVAKIA (14)
DENMARK (7)
EAST GERMANY (11)
FINLAND (7)
FRANCE (6)
GREECE (6)
HUNGARY (7)
ICELAND (7)
IRELAND (7)
ITALY (5)
LIECHTENSTEIN (13)
LUXEMBOURG (10)
MALTA (5)
MONACO (6)
NETHERLANDS (11)
NORWAY (6)
POLAND (6)
PORTUGAL (8)
ROMANIA (7)
SAN MARINO (9)
SOVIET UNION (11)
SPAIN (5)
SWEDEN (6)
SWITZERLAND (11)
TURKEY (6)
UNITED KINGDOM (13)
VATICAN CITY (11)
WEST GERMANY (11)
YUGOSLAVIA (10)

Crossing Europe



Total number of countries _____ Total number of letters _____

Name _____

Address _____

City _____ State _____ Zip _____

Enter as many different European countries as possible into the grid in crossword fashion.

In looking for a free but entertaining alternative to a European vacation, we came up with this distinctly continental challenge. The rules are as follows:

1. Only countries listed may be entered in the grid, and they must be spelled as listed. Your completed crossword may not contain any other words, names, or connected groups of letters.
2. No country may be entered in the grid more than once.
3. Each country must read continuously in a straight line either across or down, as in a crossword puzzle.
4. Countries with two-word names are treated as single words (see SANMARINO and SOVIETUNION in the example below.)



5. All countries in the grid must be linked either directly or through an unbroken chain of other countries. In the example, if you remove the T, L, and Y that connect SANMARINO and SOVIETUNION, then SANMARINO would not be linked to the other countries as required, and the grid would be invalid.

6. Names of countries may not be run together on the same line, even if they share a common end letter. For example, the grid entries ICELANDENMARK and MALTASPAIN would be illegal.

How to Enter Fill in the grid and the coupon below it (the ones provided or a reproduction): Together, these constitute your entry blank. On *both* your entry blank *and* on the reverse side of your envelope, write both the number of countries entered in your grid and the total number of letters in their names. The example shown contains 4 countries and 30 letters. (Letters used in two names are counted twice.) You may enter more than once, but each entry must be mailed separately.

Judging The winning grid will be the one that contains the most countries. Ties, if any, will be resolved in favor of the entry with the greatest number of letters. If ties still remain, they will be broken by random drawing.

Mail your entry to: Crossing Europe, Games Magazine, 515 Madison Avenue, New York, NY 10022. Entries must be received by Nov. 10, 1982.

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Cracker Jack

An inside look at America's most playful snack

by Joe Schick

In 1893 the World's Columbian Exposition drew 21 million people to Chicago to see how far civilization had progressed. My grandmother, then a perky lass of seven, recalls that the buildings were so tall they made her dizzy, that she rode on the first Ferris wheel, and that she ate a sticky, sweet-tasting concoction of popcorn, peanuts, and molasses. That concoction was Cracker Jack, although it was not so named until 1896, when an enthusiastic salesman, munching on a handful, exclaimed, "That's a crackerjack product!" and added a timeless phrase to the national lexicon.

It's been about 90 years since Granny had her first bite, and Americans are still crazy about Cracker Jack—to the tune of

400 million boxes a year. From humble beginnings, this simple confection has risen to a permanent place in our culture and in our hearts.

Not surprisingly, the story of Cracker Jack's rise carries an aroma every bit as heady as that of the candy itself: the sweet smell of success.

In 1871, soon after Mrs. O'Leary's cow had ignited the blaze that laid waste much of Chicago, F. W. Rueckheim, a young German immigrant,

sticky problem by inventing a formula to prevent the molasses-coated kernels from clinging together. And by the turn of the century, the Rueckheims had acquired a new partner, Henry Eckstein, who contributed the wax-sealed package that kept the candy crisp. But the knockout blow to their rivals came in 1908, when the song "Take Me Out to the Ball-game" included the lyric "Buy me some peanuts and Cracker Jack." The song and the snack were on the country's lips for months.

What finally elevated Cracker Jack to the pantheon of snackdom was, of course, the addition of prizes in 1912. Bingo! Kids

went crazy. Retailers restocked. F. W., Louis, and Henry got rich. Millions of eager little consumers, with visions of whistles, tops, yo-yos, and brooches dancing before their eyes, were



arrived in town with \$200 to his name. Rueckheim used the money to start a popcorn business, and later, joined by his brother Louis, branched out to marshmallows and other confections. By the Gay Nineties

they had hit upon the taste

sensation that swept the Chicago Exposition. At about the same time that the anonymous salesman coined "crackerjack," a satisfied customer raved, "The more you eat, the more you want," and the Rueckheims had their slogan.

But competition was stiff, and imitations proliferated with names like Peter Bunny, Wig Wag, and Crackajack. Cracker Jack countered with some nifty innovations. Brother Louis solved one

soon giving their pennies to the candy-store man, trying to

figure out which end the prize was at, tearing off the top, and munching.

("Hey, Bennie, wadja get?" "Magnifyin' glass, you?")

"Ty Cobb card, wanna trade?")

Seven years later the final touch to the Cracker Jack iconography was added when a patriotic sailor boy, Jack by name, his pudgy arms overflowing with Cracker Jack boxes and his flop-eared dog Bingo by his side, first appeared on the wrapper. F. W., Louis, and Henry got *very* rich.

As the decades slipped by, Cracker Jack changed with the times. The taste remained the same, but the prizes were constantly updated. From

miniature Model T Fords to tiny spaceships, Cracker Jack has buried 10,000 different types of treasures. And in 70 years of digging for a total of 16 billion toys, Cracker Jack lovers have consumed enough of the candy to gird the globe four times or stretch two-thirds of the distance to the moon.

This enormous demand is still being filled from Chicago, and that's where the story continues. GAMES submitted its request to visit the Cracker Jack factory as humbly as one petitions for an audience with the Pope. Could we be present at the creation of Cracker Jack? And could we visit the motherlode of toymaking, the Vault that houses one of every prize given away since 1912? "Sure," came the unexpectedly obliging reply.

Cracker Jack headquarters, an unprepossessing building in a run-down industrial neighborhood on Chicago's south side, was built in 1928 and looks it. Before entering, visitors are rewarded with the smell of Cracker Jack abounding: the fresh, natural fragrance of newly popped corn, the sweet, dark scent of warm molasses, the rich aroma of roasting

peanuts. Once inside, and wearing little paper hats that say "Safety First," we're led to the Receiving Department. Here railroad tank cars arrive daily, laden with corn syrup (90,000 pounds a day), sugar (80,000 pounds), peanuts (30,000 pounds), and other megamounts of raw materials. A mechanized distribution system dispenses the ingredients to the processing area, where six huge silos hold unpopped corn (Cracker Jack is the largest user of popcorn in the world). From the Receiving Area, the plant spreads over three floors of chutes, bins, and conveyor

belts that look like a Rube Goldberg fantasy. People act like they know how it all works, but one has the vague suspicion that it was put together with an erector set and rubber bands.

How, amid this seeming chaos, are a million boxes of Cracker Jack produced each day? Start with corn. Cracker Jack grows its own hybrid corn on farms from Iowa to Texas. In the factory, the kernels are first sifted to extract any foreign matter and then continuously fed into five gigantic hot-air poppers, one of which, "Big Wally," is the world's largest. Sprayed with a mixture of corn oil and lecithin, 25 tons of popped corn a day are dumped into a tumbler, where unpopped or too-small kernels are sorted out and later sold as cattle feed.

Meanwhile, in an ultramodern room, the coating syrup—a mixture of molasses, corn syrup, sugar, salt, and water in top-secret proportions—bubbles like lava. When it reaches the proper temperature, a batch of this ambrosia is released (it flows as slow as molasses, of course) to coat the popped corn. After the resultant gooey mass is spun in a cooling reel to separate the clumps and broken down into single, coated pieces, it's cooled off. The alluring bouquet of this candied popcorn passing on a nearby conveyor belt is overwhelming, and one involuntarily reaches out to capture a handful. While we're gently admonished for our naughtiness, the peanuts (ah, you forgot the peanuts) are being sifted for size by electric eyes, coated with the same mix, cooled in machines that go ca-chunkada ca-chunkada, and held for introduction to the popcorn.

weather indicators. Mumbling a transparent cover story about young relatives, we stuff our pockets like a nine-year-old.

The last stop on this part of the tour is a vast room where the separate components of Cracker Jack meet for the first time. Then, a machine that is certainly the brainchild of a mad genius forms a piece of cardboard into a box, seals the bottom and opens the top, drops in the prize, measures out 28 grams of popcorn and six to 10 peanuts and pours them in, seals the top, wraps the box, and sends it out to bring joy to the world.

The factory isn't totally mechanized. Cracker Jack employs about 500 people to check and quality-control every step of the production process, and the employees fit Cracker Jack's image to a wholesome T. Frances, for example, sings Christmas carols while she works. Frances met her husband 38 years ago when they were both loading Cracker Jack boxcars, then left to raise her family, and finally returned 12 years ago as a prize-wrapper. Naturally, there are unions, production problems, and job competition, but the Cracker Jack factory seems a remarkably homey place.

Having seen thousands of toys readied for the future, and eager to view the glories of the past, we are led to the Vault by one of the two people who possess the combination. Left alone in this Dickensian disarray, we explore old press clippings, teetering piles of prize boxes,

and dusty albums holding yellowed photos of horse-drawn delivery carriages.

As the musty cabinet drawers disgorge toys in more-or-less chronological order, it becomes apparent

that each decade's prizes had a distinctive character and look. The 1910s saw the first great rush of Cracker Jack toys, many of which, like "Uncle Sam's Famous National Songbook," were inspired by the patriotic fervor of World War I. Along with such

Now the final ingredient. In a Prize Room on the third floor, prizes are spit out by machines onto a rumbling conveyor belt that thoroughly jumbles the 16 different types of toys. Cracker Jack wants you never to get the same prize twice in a row, and the prize mixture is changed every day. Today's mix includes riddle books, iron-on patches, and



*Over seven decades
treasure hunters have
consumed enough Cracker Jacks
to gird the globe four times.*

Cracker Jack

classics as metal whistles, tops, and ball puzzles were some surprisingly exotic items: wooden necklaces, miniature porcelain brooches, and hand-painted parrot pins. These, and many more prizes of this period, were made in such places as Mexico and Rumania. Until World War II, Japan too was an important supplier of toys; now all prizes are home-grown.

The 1920s ushered in the Flapper Age, and the toys of this decade and the next mirrored the nation's restless, escapist mood. Movie-star cards, particularly those of Norma Shearer and Clark Gable, were hot, as were baseball cards and pennants. If you were a kid in 1928 you could collect trains, trucks, or cars (Fords, mostly), or put together charm bracelets with tiny animals. (Indeed, over the years Cracker Jack has

spawned a Noah's Ark of squirrels, snakes, hippos, chipmunks, geese, goats, lions, woolly mammoths, and even dinosaurs.)

During the thirties, many prizes were made of tin or lead, and most were part of sets, so you saved 'em, traded 'em, and tended to keep 'em—a generation of Depression kids couldn't afford any other toys.

The late thirties and forties were a golden age for Cracker Jack prizes. What kid wouldn't want to get his mitts on G-men, trick inkblots, fortune-tellers, Morse Code books, fake mustaches, sundials, and horoscopes? This flood of fun didn't abate after Pearl Harbor. Cracker Jack went to war with miniature soldiers, Allies in Action cards, a Beat the Axis game, and sailor tattoo decals, all of which earned them a special commendation from the War Department.

The fifties were a dull decade, but not for Cracker Jack fans. While postwar America was reveling in polystyrene, Cracker Jack added sprightly plastic toys—for instance, circus animals—to its repertoire. In the mid-fifties, kids started wearing coonskin hats and watching cowboy shows on TV,

and, if they were lucky, fished from Cracker Jack boxes Davy Crockett and Hopalong Cassidy cards and Indian decals.

When the space age got off the ground in the sixties and seventies, Cracker Jack wasn't left behind: Space games and science fact books ("What is Air Made Of?"), jigsaw puzzles, kazoos, pinball games, 3-D monsters, and other small wonders gleamed up at us from the drawers of the Vault's cabinet.

Viewing seven decades of prizes in three straight hours can lead to toy burnout. But the average Cracker Jack lover never becomes jaded by the prize, which is part of the product's appeal: Each box of Cracker Jack is a fresh experience. You never know what you're going to find inside, but it's always a new thrill.

If the prizes in the Vault are reminders that Cracker Jack has acquired sentimental value, it should be noted that the toys have real value as well. In fact, a devoted cadre of Cracker Jack collectors has sprung up, and with them, a brisk trade in Cracker Jack collectibles.

Harriet Joyce of Indiana, nicknamed "the Queen of Cracker Jack," is the archetypal Cracker Jack collector. Despite her cherubic appearance, she's as fanatical about her collection as the seekers of the Holy Grail. Harriet's family has weaned her from the habit of taking parts of her collection on vacation, but not from disappearing periodically into a hidden room behind the second-floor closet to

survey her treasures. While she was amiably chatting with us and displaying some of the rarities in her collection of more than 500

pieces, the phone rang.

Harriet's eyes shone like Indiana Jones's on the trail of the Lost Ark—an estate sale had

covered, Harriet pointed out some of her old favorites: a tiny radio with the slogan "Tune in with Cracker Jack," a metal refrigerator car, and a complete set of the early, extremely rare Teddy Bear cards.

Harriet often shares information with or offers duplicates to the other Big Three of Cracker Jack collectordom—Wes Johnson of Kentucky, Alex Jaramillo of California, and Richard Sternfeld of New York—and all four scour toy shows, antiques magazines, and notices of sealed-bid mail auctions in search of hitherto unearched bonanzas.

Richard Sternfeld is even more delightfully compulsive about his treasure trove than Harriet Joyce. His specialty is paper prizes—highly perishable and therefore valuable—produced before 1948. Richard started collecting Cracker Jack prizes when he grew tired of his Coca Cola collection. It seems the market for Coke memorabilia had gotten a little out of hand: Too much competition and runaway inflation had fostered a Wild West mentality among collectors. His affection for Cracker Jack items arises from their intrinsic appeal (his daughter can play with Daddy's toys), their still affordable prices, and the fact that a large collection does not necessitate the purchase of a larger home—though his prizes already take a disproportionate amount of space in his apartment. Richard's wife, like Harriet's husband, regards him with good-humored indulgence, and both collectors whisper conspiratorially that they would never reveal to their spouses how much they spend on their collections.

As collecting obsessions go, Cracker Jack is pretty relaxed and low-keyed. All the major collectors are friendly with one another, and share leads and anecdotes and trade lesser valuables among themselves. And because the cost of Cracker Jack collecting has not reached the ionosphere (many post-1948 prizes can be had for less than \$2, and modern ones for the cost of the box), it is winning converts from collectors of different sorts of memorabilia. Moreover, you can't play with a Planters Mr. Peanut swizzle stick or an I Like Ike button the way you can with a Cracker Jack tic-tac-toe game.

But whether you collect the prizes or just eat the confection, Cracker Jack, like jazz, baseball, and Superman, is an idea utterly woven into the American experience. It is at once a testimonial to our national ingenuity, a wealth of social history, and a handful of childhood wonder.

And it goes so well with champagne.



turned up a cache of prizes from the twenties and thirties, her favorite Cracker Jack era. This is not an everyday event. According to Harriet, the market is drying up; the prizes she used to find at flea markets and garage sales for 50 cents or a dollar when she began collecting in 1970 now fetch \$10 and up.

Excited by the prospect of a new dis-





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Good evening. I'm Norman Yates, the motel manager. Sure, we have a room with a shower. Just sign your name and I'll take your bags. It's nice to have company—not many folks stop here since the new highway was built. In fact, you're our only guest. Sometimes Mother and I get lonely. Oh, you've noticed my collection of Hitchcock memorabilia. I'm crazy about his movies—they're so realistic. The pictures in this room are cameo appearances Hitch made in 10 of his films. The motifs on each frame represent key scenes in those movies. The 14 other objects and four film cans are also related to his films—five to those represented by the cameos, the rest to different movies.

Wait! Before you go to your room, why don't you play a little game? Try to name which movies are suggested by the various photos and objects. After you finish, you'll get to meet Mother.

Answer Drawer, page 72



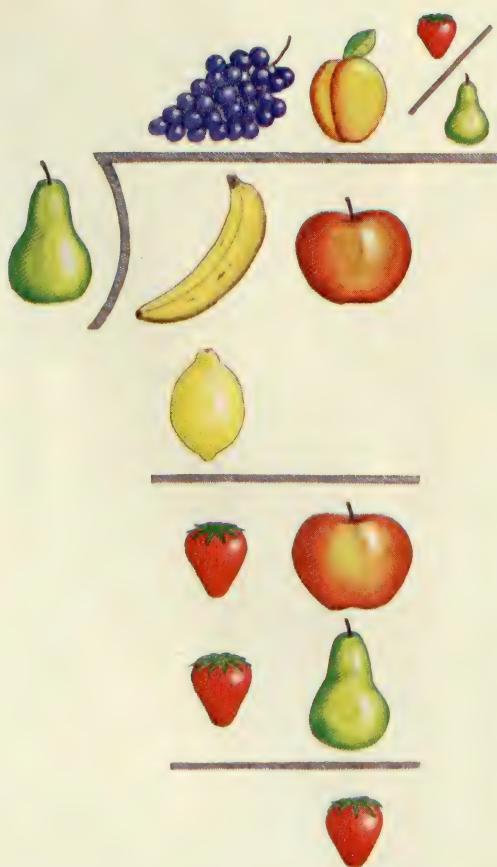
ILLUSTRATION
BY JOHN HULSEY



BEGUILERS

Don't even *look* at these six puzzles if you have anything important to do today—or you'll soon find out why we call them beguilers.

Answer Drawer, page 71

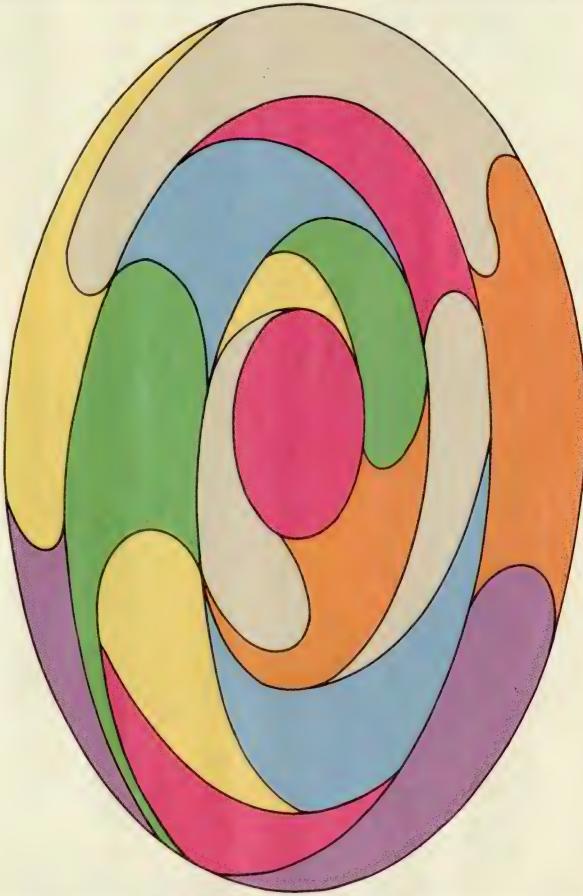
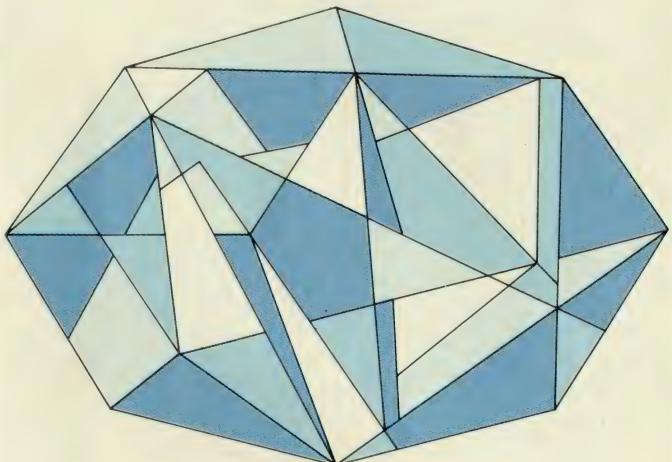


A Pear-Plexing Problem

Can you turn this picture into a correctly worked division problem, by substituting a different digit from 1 through 9 for each type of fruit?

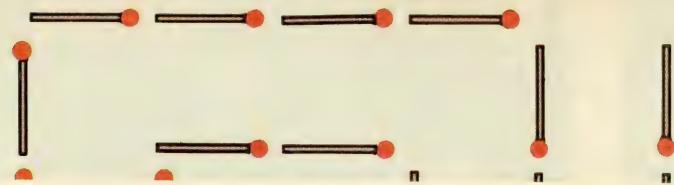
Trying Angles

There are many triangles in the figure, but only one of them is equilateral—that is, all its sides (and all its angles) are equal. Can you find it?



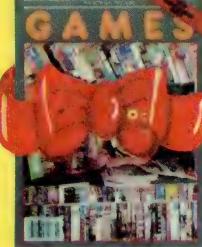
Cross Currents

Can you draw a straight line that passes through exactly seven regions, each of which is a different color? Your line must pass all the way through the figure.



Match Play

By moving four of the matches in the spiral at left, can you form exactly three squares? In your solution, every match must be part of at least one square.



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Knightmare

In this maze, you must move like a knight in chess—either two squares horizontally and one square vertically, or one horizontally and two vertically, in any direction. Can you find a path that touches every letter of the alphabet exactly once, and in alphabetical order, beginning at the A in the upper left and ending at the Z in the lower right?

E.



F.



Knots or Not?

Can you determine which of these pieces of rope are actually tied in a knot, and which ones will simply straighten out when their loose ends are pulled?



Don't even have a
you'll see
beguiled

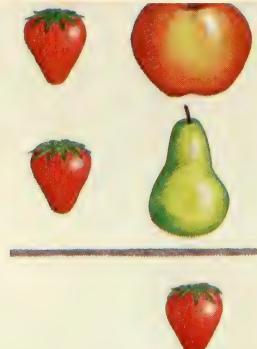


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A Pear-Plexing Problem

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Trying Angles and Cross Currents are by R. Wayne Schmittberger; A Pear-Plexing Problem is by Peter W. Clark; Match Play and Knightmare are by Pierre Berloquin; and Knots or Not? is from *The Book of Modern Puzzles*, by Gerald Lynton Kaufman.

Trying Angles

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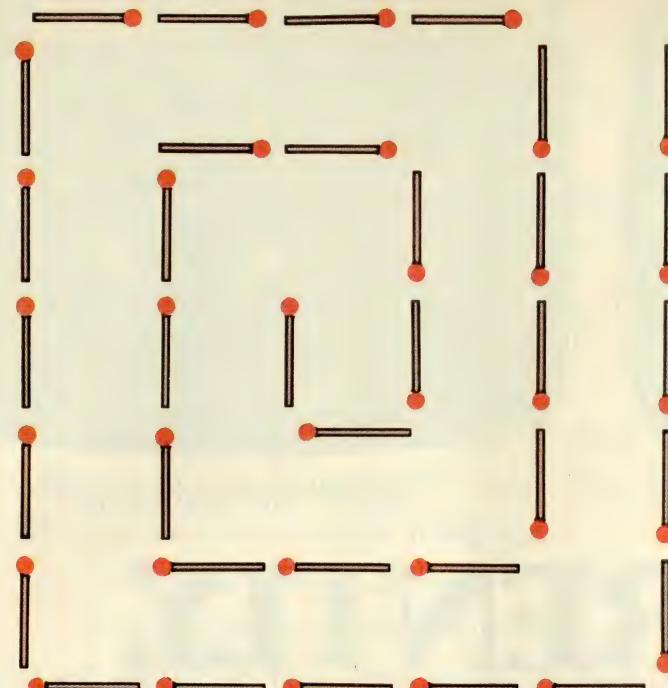
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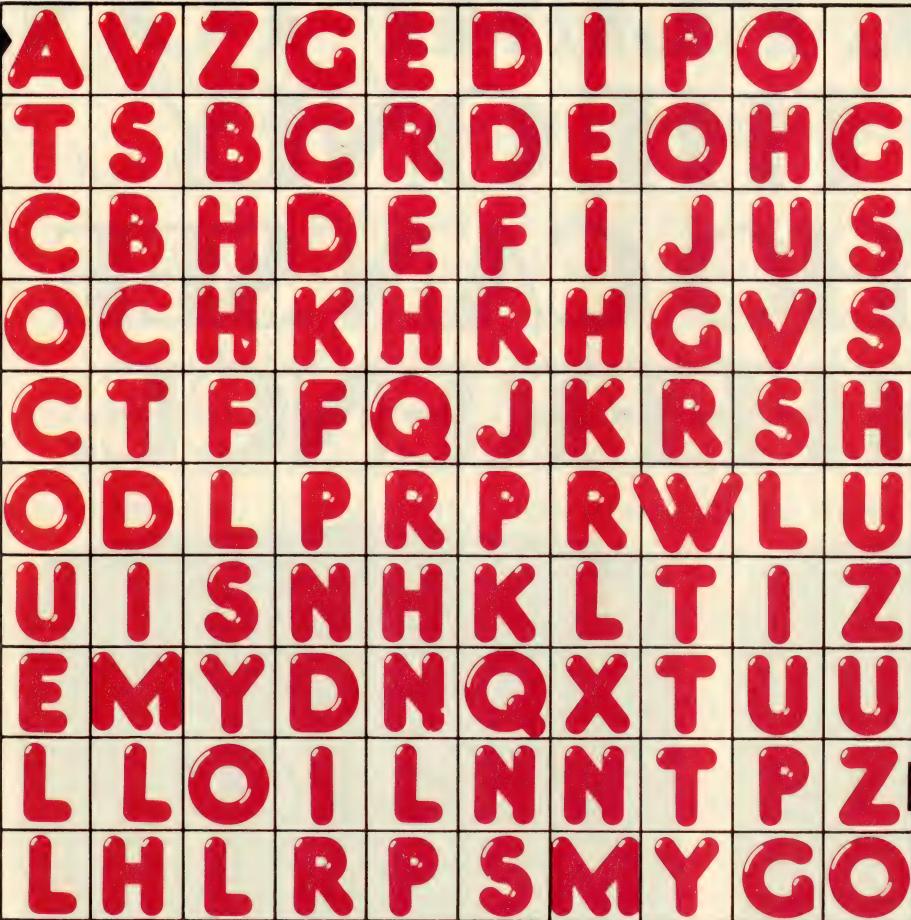
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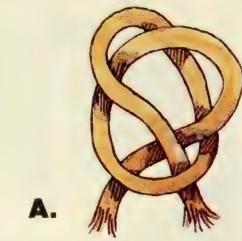
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Knightmare

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A.



B.



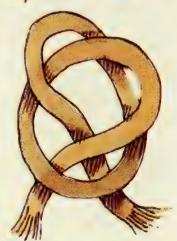
C.



D.



E.



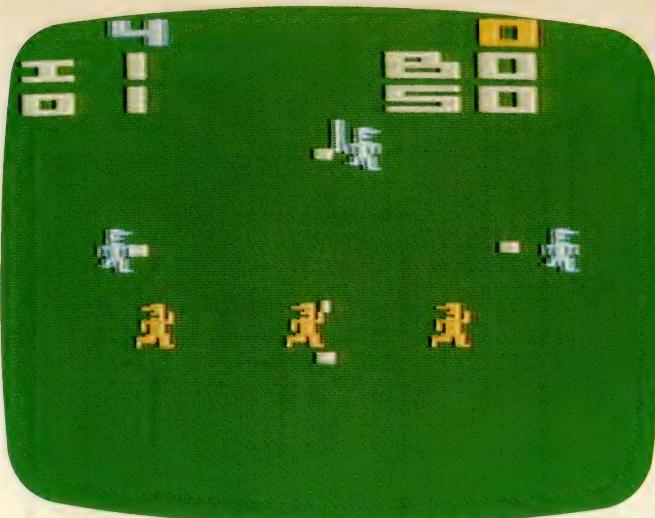
F.

Knots or Not?

Can you determine which of these pieces of rope are actually tied in a knot, and which ones will simply straighten out when their loose ends are pulled?

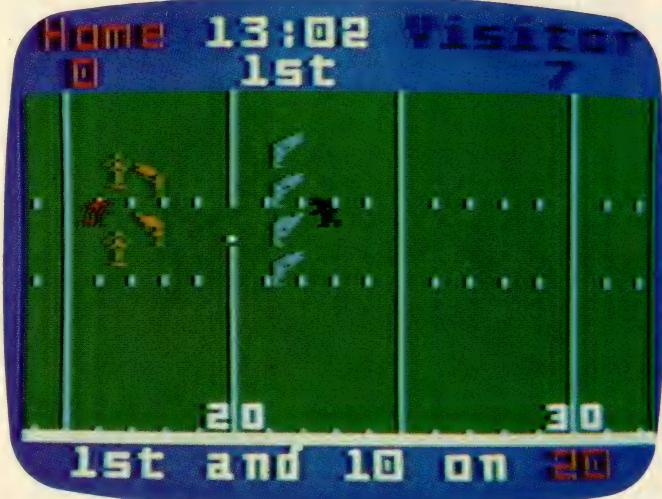


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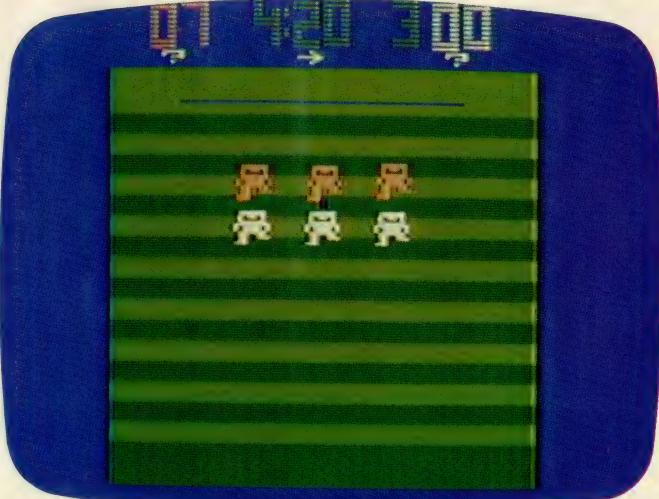


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ILLUSTRATION BY MICHAEL WITTE

Cross Sets ★★

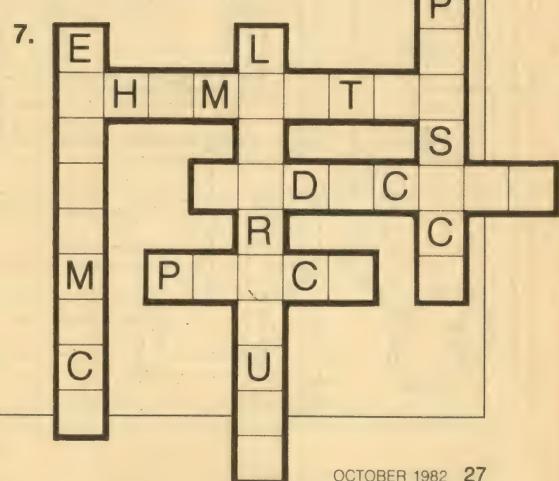
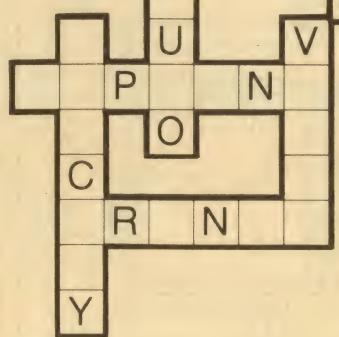
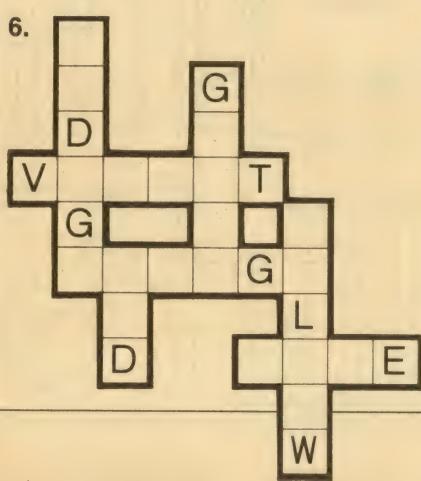
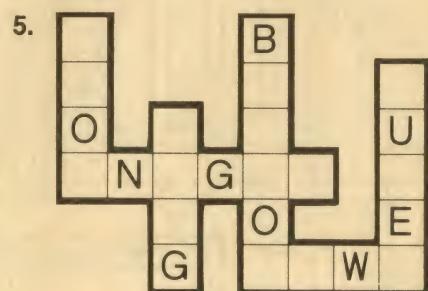
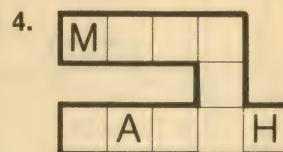
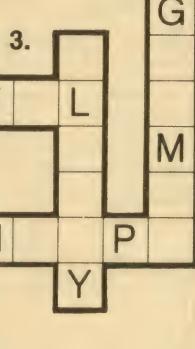
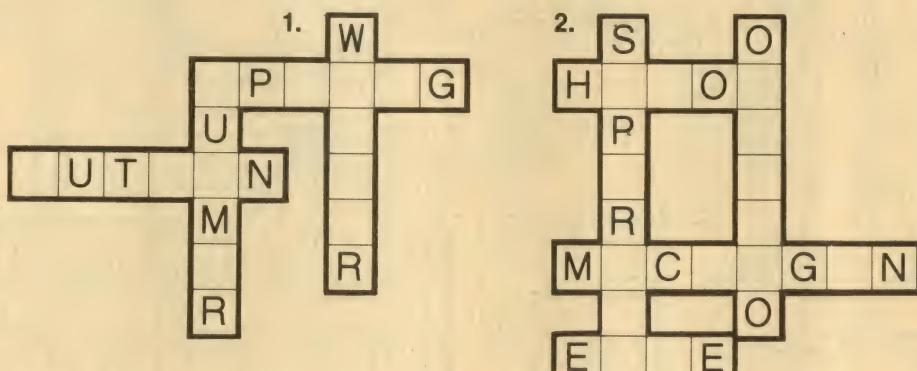
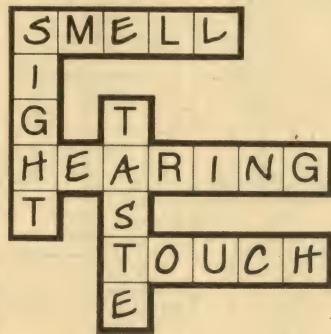
by Mike Shenk

Each of the following miniature crosswords, when finished, will contain a complete set of related words. Can you discover the words, with the help of the given letters, and identify

the categories? For example, the first grid, which has been filled in for you, contains the names of the five senses.

Answer Drawer, page 68

Example



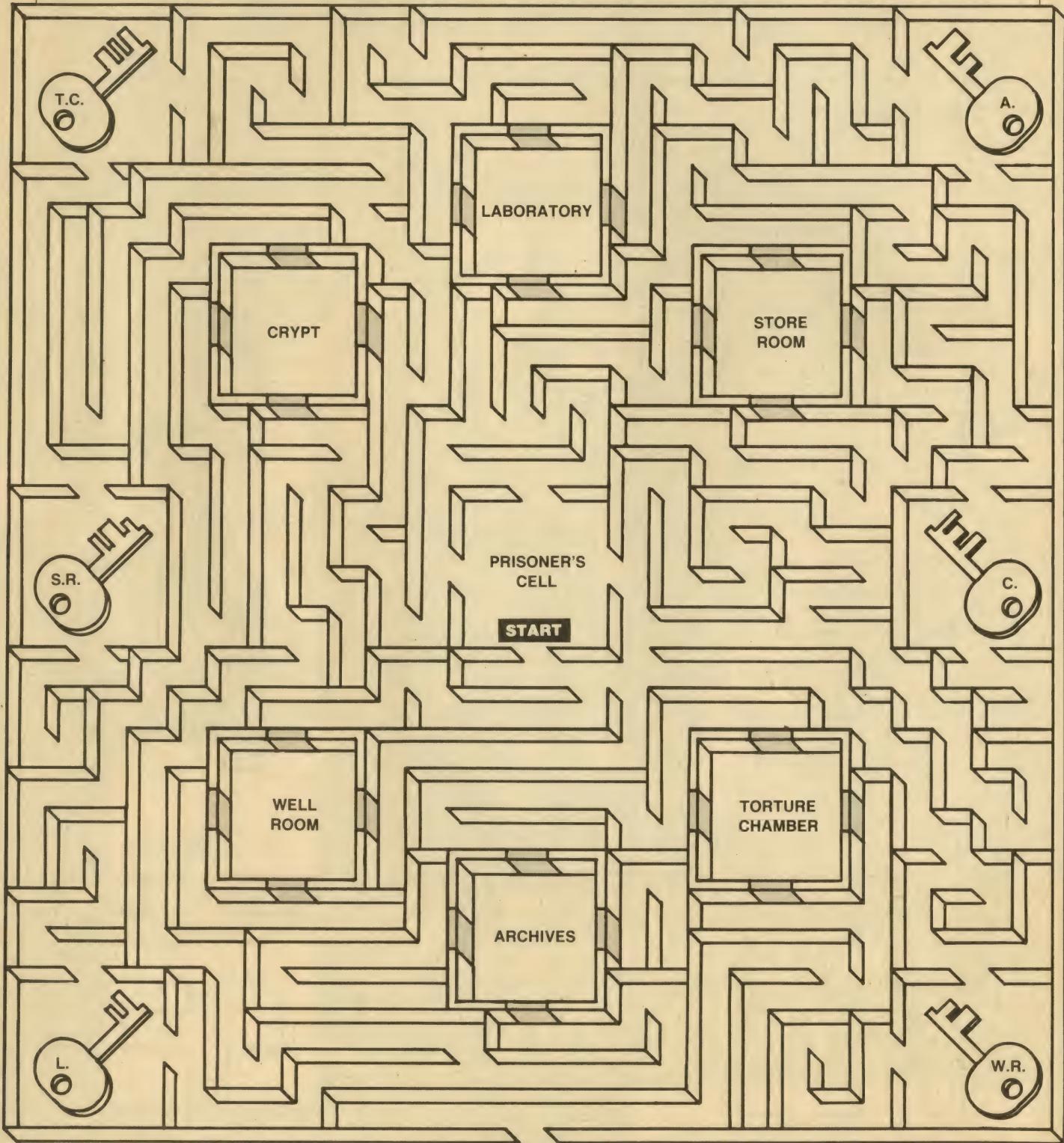
Keys to the Dungeon ★★

by R. Wayne Schmittberger

This is the infamous dungeon maze of the 13th-century Balmanian Inquisition in which, according to legend, thousands of men and women perished. Balmanian prisoners faced a cruel obstacle in trying to negotiate the maze, as they had to grope their way in the dark while pursued by a pack of wild dogs. By contrast, the puzzle as presented here should be almost child's play. The plan for the dungeon shows the prisoner's cell in the middle (marked "start"), a network of hall-

ways, six locked rooms, and six key rooms located on the periphery. To enter or leave a locked room, you must first secure the appropriate key: Key TC unlocks the Torture Chamber, key A unlocks the Archives, and so on. Once a room has been unlocked, it remains unlocked, and you may carry as many keys with you as you wish. Retracing your steps is allowed. In what order must you visit the rooms in order to escape?

Answer Drawer, page 70



Kiddie Lit ★

by Stephanie Spadaccini

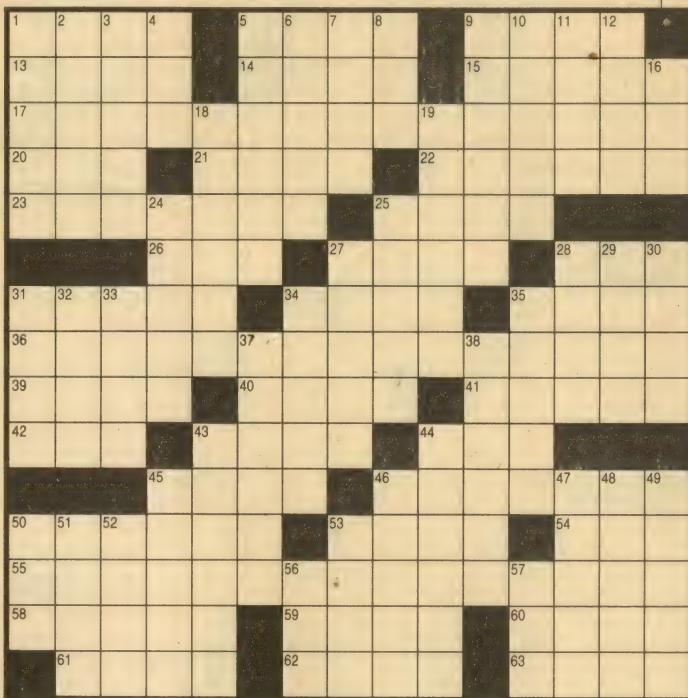
ACROSS

1 Treaty
 5 "Fickle finger of ____"
 9 Private school
 13 Mr. Guthrie, of "Alice's Restaurant"
 14 To be: Fr.
 15 Baton-passing race
 17 Exhibitionist in a children's rhyme?: 3 wds.
 20 Spanish queen
 21 "So long" in Italy
 22 Joins, as a contest
 23 Naturalist Charles and family
 25 Raincoats, for short
 26 Perfect tennis serve
 27 Corner of a baseball diamond
 28 Chicken ____ king: 2 wds.
 31 Spin around
 34 "Man of the Year" magazine

35 Soon, to the poe
 36 Name-dropper in a children's story?
 39 Muhammad and MacGraw
 40 Relaxation
 41 ____ Teenage Werewolf: 3 wds.
 42 Tinkerbell's pal, Peter
 43 Professor Higgins
 44 Health resort
 45 Telephone lines: Abbr.
 46 Physical well-being
 50 Spicy shrimp dish
 53 Prefix with "masochist"
 54 Merry month, in Paris
 55 Construction workers in a children's story?: 3 wds.
 58 Consumed
 59 Flower holder
 60 "Woe is me!"
 61 Knucklehead
 62 Cupid
 63 Say "I didn't do it!"

DOWN

1 Handled roughly
 2 Stadium
 3 Cloudless
 4 Pull along, as a car
 5 Like a cat
 6 Book of maps
 7 Threesome
 8 Wide shoe size
 9 ____ Charming
 10 Leases, as an apartment
 11 Actress Sommer
 12 Twosome
 16 Affirmative
 18 Frozen dangler
 19 Sly animal
 24 Bends out of shape
 25 Mrs. Eisenhower
 27 Itsy- ____
 28 Singer-songwriter Paul
 29 Miss Lane, of "The Daily Planet"
 30 Actress Magnani
 31 Cover, as Christmas presents
 32 Hawaiian dance
 33 "____ the Mood for Love": 2 wds.
 34 Russian kings
 35 Dam on the Nile
 37 Hearty soup
 38 Walk softly
 43 Use up, as energy



Answer Drawer, page 68

44 Moves sideways
 45 Eastern prince
 46 "Tubby"
 47 Author Zola
 48 Cosmos host
 49 Actress Spacek
 50 Sault ____ Marie: Abbr.
 51 Father of "Number One Son"
 52 Comedian Johnson
 53 Celeb
 56 "____ Got You Under My Skin"
 57 Hippie's home

All Thumbs ★★

by Burt Hochberg

Considering that it's the shortest finger and not much good for anything besides hitting with a hammer, the thumb has found its way into a lot of common expressions. Fill in each

blank below with a word, name, or phrase that contains the word THUMB. For example, number 1 ("go-ahead" sign) is THUMBS UP.

Answer Drawer, page 66

1. "Go-ahead" sign _____
2. Short bio _____
3. Gardener's gift _____
4. Guideline _____
5. Hitchhike _____
6. Torture device _____
7. Tiny dancer _____
8. Pushpin _____
9. Servile _____
10. Show defiance _____
11. Be idle _____
12. Barnum attraction _____
13. Deluxe dictionary feature _____
14. Be extremely conspicuous _____

The Unicorn *

by Edith Rudy

A Fantastic Word Search

The unicorn, a fabled white horse with a long, flowing mane and a coiled horn jutting from the middle of its forehead, was first mentioned by Ctesias the Greek around 500 B.C. He pictured it as having a purple head, a red tip on its horn, and a horrible temper, but over the centuries the beast has shed its fierceness and been transformed into one of the gentlest and most loved of all fabled creatures.

Hidden in the grid below is the word UNICORN and the names of 39 other creatures from mythology and fantasy. See if you can find them all. Each name reads in a straight line horizontally, vertically, or diagonally. When you've circled the 40 names, the leftover letters—reading in order from left to right—will spell a line of poetry and some additional unicorn lore.

Answer Drawer, page 70

ARGUS	CENTAUR	COCKATRICE	GARGOYLE	HIPPOCAMPUS	NORN
BASILISK	CERBERUS	CYCLOPS	GOBLIN	HYDRA	OREAD
G	CHIMERA	DRAGON	GORGON	INCUBUS	PEGASUS
A		DRYAD	GRENDEL	KRAKEN	PHOENIX
R O		FAUN	GRIFFIN	MERMAID	SALAMANDER
G N			HARPY	MINOTAUR	SATYR
O E				NAIAD	SIREN
Y B Y				NEREID	SPHINX
L O N		E		NIBELUNG	TITAN
E I N	N	T H			TRITON
U E U	M O	O N N	L		UNICORN
A I G H	N T T H	T R I T O N E R			VAMPIRE
F E N E	I I H G H L I N G G F A				WEREWOLF
R O F A C	C F B O E N T Z R				WYVERN
D R A	G O N H E D O H A O D U				ZOMBIE
N T E D	P A R G I R R T M N H E I G U N				
I C O Y	R I E N S N N B O R E A D C O M				
F E M	D O W I N T O M R T H				
E F S E	I A C E R B E R U S G F				
R O I W	M A H P O O E M E C Y C L O P S B Y				
C N O Y	N R C I A D C M A L I K E N E T H				
E U N I	V C W O R P N I K S O U T F T G E				
N C O N	S E E I D E R P E D A M I N O T A U R				
O N E O	F T R H E M O S T O P U T R E G A S R N D				
G E N S I	R E N T L E O F C A V R A L L U C G R E				
A T U R E	W S A C C N A A O I R D S I N U G T				
O L E O	G E N D T H M E U C N I C O R S N C O				
U L L	F R D D P P I P E I T R S H O S				
F R	N I N I T U O A L E I Q U I U D				
	A N D R N D S E D T K E C T B W H				
	E T H E E R I N T I C S X O U N T A				
	I S K N E D A P O I E S I O C N N				
	D U A N I C M O R N S A R N L N R E R				
	A R T R U A T N E C L S O E N I O T E O				
	D K F Y O L R B E I N G P A O N R S A D O N				
	X H Y D R A I C A L L Y S H Y H A N D A B R A				
	V E E D S I D A I A N T H R S P H I N X B U D Y				

Boo! **

by Lois Sidway

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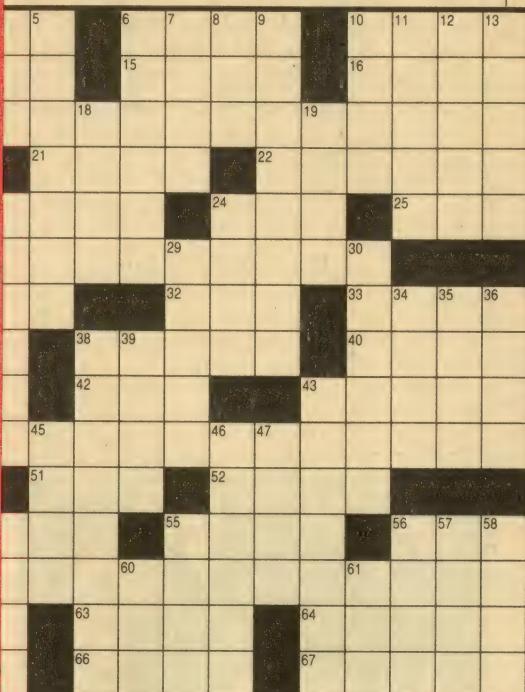
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Answer Drawer, page 70

54 Italian treats
55 Confusion
56 Trattoria tip
57 Israeli statesman Abba
58 Tennis great
60 Pussy cat's boatmate
61 Mythical bird

by Stephen Sniderman

ample, the sentence "Brittle folks tell weight
ming language for "Little strokes fell great
You restore reason to the following 12 rhymes?

Dancer War, page 71

6. Cootie whiz—lonely in sleep. _____
7. Penny brands break night clerk. _____
8. Go choose his wood shoes. _____
9. Small loads seed new home. _____
10. I'm banned—I'd hate war foe plan. _____
11. Fall wood brings trust from you, tan friend. _____
12. Walls bear din of band store. _____

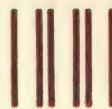
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ARGUS CENTAUR COCHLEA
BASILISK CERBERUS CYCLOPS
G CHIMERA DRAGON
A DRYAD FAUNUS
R O FAUNUS
G N FAUNUS
O E FAUNUS
Y B Y FAUNUS
L O N FAUNUS
E I N FAUNUS
U E U FAUNUS
M O FAUNUS
A I G H N T T FAUNUS
F E N E I I H FAUNUS
R O F A C FAUNUS
D R A G FAUNUS
N T E D P A R G FAUNUS
I C O Y R I E N FAUNUS
F E M D FAUNUS
E F S E I A FAUNUS
R O I W M A H P FAUNUS
C N O Y N R C I FAUNUS
E U N I V C W O R FAUNUS
N C O N S E E I D E FAUNUS
O N E O F T R H E M O FAUNUS
G E N S I R E N T L E FAUNUS
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by Edith Rudy



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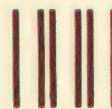
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I S K N E D A P O I E S I O C N N
D U A N I C M O R N S A R N L N R E R
A R T R U A T N E C L S O E N I O T E O
D K F Y O L R B E I N G P A O N R S A D O N
X H Y D R A I C A L L Y S H Y H A N D A B R A
V E E D S I D A I A N T H R S P H I N X B U D Y

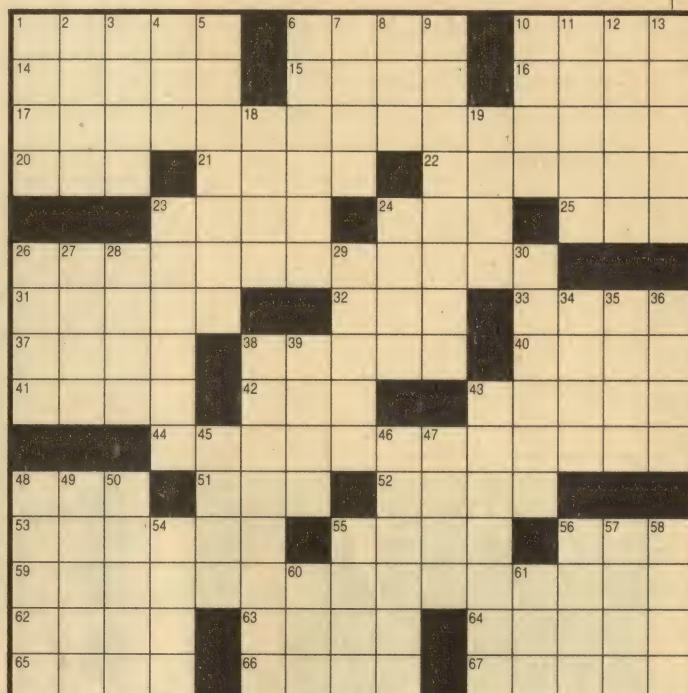
ACROSS

1 Harvest goddess
 6 Trudge
 10 "Shoo!"
 14 Grown-up
 15 Indian royalty
 16 "That singing
 rage, Miss
 Patti ____!"
 17 Have an
 intuition,
 like a ghoul?
 20 Naval off.
 21 Tear
 22 Like good
 moonshine
 23 Cheeky child
 24 Balloon contents
 25 "____ O"
 (Belafonte hit)
 26 Group of trick-
 or-treaters?
 31 Purple with anger
 32 Francois' friend
 33 Hit the fridge
 37 King, for one
 38 Fasten, as full
 attention
 40 "____ each life . . ."
 41 007
 42 Lyric poem
 43 Invade

DOWN

1 Bistro
 2 Anthony or
 Barbara
 3 Regrets
 4 Addition
 5 Made a witches'
 brew?

44 Low-down hijinks
 at Halloween?
 48 *N'est-ce ____?*
 51 ____ de France
 52 Playboy's
 patron saint?
 53 Swiss
 mountain goat
 55 Amahl's regal
 friends
 56 Field of work
 for a sheepdog?
 59 What Halloween
 taffy apples do?
 62 Give's partner
 63 Remus was one
 64 Old Testament
 part
 65 Mars' Greek
 counterpart
 66 Fitzgerald,
 of jazz
 67 Word in a
 playbill



Answer Drawer, page 70

47 Yen
 48 Ziti, e.g.
 49 Selfish souls
 45 Twist
 46 "Edna Mae"
 Durbin

54 Italian treats
 55 Confusion
 56 Trattoria tip
 50 Mulligan or
 Jones

57 Israeli
 statesman Abba

58 Tennis great
 60 Pussycat's
 boatmate
 61 Mythical
 bird

Rhyme and Reason ★★

by Stephen Sniderman

The sentences below may look a bit strange, but they should sound vaguely familiar. That's because each one is merely a familiar proverb in which every word has been replaced by a

rhyme. For example, the sentence "Brittle folks tell weight jokes" is rhyming language for "Little strokes fell great oaks." Can you restore reason to the following 12 rhymes?

1. Letter rate can sever. _____
2. Slime wasn't gray. _____
3. Factions seek chowder, ban birds. _____
4. Leggers pant, see losers. _____
5. True Feds mar wetter van run. _____
6. Cootie whiz—lonely in sleep. _____
7. Penny brands break night clerk. _____
8. Go choose his wood shoes. _____
9. Small loads seed new home. _____
10. I'm banned—I'd hate war foe plan. _____
11. Fall wood brings trust from you, tan friend. _____
12. Walls bear din of band store. _____

Dancer War, page 71

Below are seven messages, consisting of pithy sayings, fascinating facts, and a cartoon gag, which have been translated into simple code alphabets. Letter substitutions remain constant throughout any one cipher, but change from one cipher

to the next, and the level of difficulty increases as you progress. An asterisk (*) indicates a proper noun.

Clues are given at the bottom of the page to provide assistance if you need it.

Answer Drawer, page 72

1. CRYPTOON

J QVRMMD URG JA BJOJWUVG
RA AUV *TQKKNMDO *TQJGYV,
TSA J GKO'A YVA KBB AJMM
*BMRATSWU *RZVOSV.



2. ENTOMOLOGY

SHWWVCLAA VA H EDRLPQIG.
RSL KNPL GND USHAL VR,
RSL OHPRSLP VR OIVRA. EDR
INNM HJHG, HCF VR UNKLA
HCF AVRA NC GNDP ASNDIFLP.

3. BASIC DRIVING SKILL

TCTKN DGZGKOLZ TCTFZXQSSN
STQKFL ZIOL YXFRQDTFZQS
HKGHGLOZOGF—ZIT TQLOTLZ
VQN ZG KTYGSR Q KGQR DQH
OL ROYYTKTZSN.

4. THE REAL YOU

NF KAZG FNG TP *AMVVGUMMYY:
RCFK FBONJZ NUNG KAZ JAMPG
KTPFZV, HOTZPY, NPY
CPYZOPZNKA GMC UTVV HTPY
KAZ OZNV KTPFZV.

5. WISH FULFILLMENT

VZWWZISM WISH GIQ
ZVVIQLCWZLD FTI TCJR
SI ZYRC FTCL LI YI FZLT
LTRVMRWJRM IS C
QCZSD *MKSYCD CGLRQSIIS.

6. ROADBLOCK

GLYW L IBUOX ILD YCRBMOK
RILR IBD PBJJODR CPDRLMVO
ELD YCR RIO GCZYRLBYD IO
RLMUUVOK, PZR RIO JXLBY CN
DLYK BY IBD DICO.

7. PERFORMANCE EVALUATION

UQNI CDZ INIL JDMTWIO MUQM
QEMIL QHH TA AQTO QJO ODJI,
MUILI ZAZQHHC TA Q XUQHI DE
Q HDM FDLI AQTO MUQJ ODJI?

CLUES

Cipher 1: The ciphertext word GKO'A represents the plaintext DON'T.

Cipher 2: Ciphertext VR, appearing three times, represents the word IT.

Cipher 3: Ciphertext TCTFZXQSSN is an adverb ending -LY.

Cipher 4: Plaintext THE appears twice.

Cipher 5: The ciphertext FTI and FTCL both represent words commonly used to begin questions.

Cipher 6: The one-letter word is A. What common word is RILR likely to be?

Cipher 7: The five vowels are represented by (in no order) Q, I, D, Z, and T.

Front Runners ★★

by Will Shortz

Each of these puzzles contains five pairs of clues and a five-line grid in which to write the answers. To solve, answer the first clue in each pair and enter it in the correspondingly numbered space in the grid. Next, add one, two, or three letters in the box in front of this word to complete a new word that answers the second clue. For example, given the clues "“Eure-

ka!”” and “Nebraska city” in puzzle A below, you would write AHA in the numbered space in the grid, and the letters OM in front of it, to complete the name OMAHA. When each grid is filled, rearrange the five sets of boxed letters on the left in alphabetical order, without rearranging the letters within any set; they will spell a bonus word related to the puzzle’s title.

Answer Drawer, page 68

A. He’s Met His Match

OM	1 AHA	2	3	4	5

1. “Eureka!”	Nebraska city
2. ____ of roses	Paid off, illegally
3. Not sick	Reside (in)
4. Beneath	Infield hit
5. Formal proposal	Anger or joy, e.g.

Answer: _____

B. What a Gasser!

	1	2	3	4	5

1. Landlord’s due	Flood
2. True-to-life	Breakfast food
3. Secret agent	Hoarse
4. Charmingly old-fashioned	Familiarize with
5. Stable worker	Space under a desk

Answer: _____

C. It’s Elementary

	1	2	3	4	5

1. Movie performer	Farm machine
2. Witch’s concoction	Jewish language
3. Tribal leader	Tomfoolery
4. Storefront canvas cover	Sign of fatigue
5. Childhood disease	Chirping insects

Answer: _____

D. Go for a Spin

	1	2	3	4	5

1. Encountered	Football gear
2. Stove	Citrus fruit
3. Junk mail addressee	Executive
4. African antelope	Reykjavik’s site
5. Subtraction sign	End

Answer: _____

Seven-Day Wonder ★★

by Steven Caney

Here are seven consecutive days—Sunday through Saturday—from the datebook of a friend of ours, which we've mixed up. The pages, that is, not the friend. Can you reconstruct the week from the handwritten clues and label the pages A-G in correct order? We wonder.

Answer Drawer, page 70

A.

8:00
 9:00 ~~✓~~ Pick up car
 10:00
 11:00
 12:00
 1:00 ~~✓~~ Perma
 2:00
 3:00 ~~✓~~ 50%
 4:00 ~~✓~~ 975.05
 5:00
 6:00
 7:00 ~~✓~~ Stag party
 8:00 for Gramps
 Reminders
 See if Vera wants
 to see a movie
 tonite

B.

8:00
 9:00
 10:00 Call the clip
 11:00 Joint for perm
 12:00
 1:00
 2:00 ~~✓~~ Take Monitor
 3:00 to pet
 4:00
 5:00
 6:00
 7:00 ~~✓~~ Dinner with
 Beverly & Arnold
 8:00 at The Hungry Man
 Reminders
 Forgot "RRL"
 - get today

C.

8:00 ~~✓~~ gift for Gramps
 9:00 ~~✓~~ & Vera
 10:00
 11:00 My dog has fleas!
 12:00 Call pet and
 1:00 exterminator
 2:00
 3:00 Car needs points
 4:00 ~~✓~~ plugs - call
 5:00 for appt.
 6:00
 7:00 ~~✓~~ Japanese film *
 8:00 at library
 "The Human Tarantula"
 Reminders
 * but "Rash, Redrum
 Love" at
 library tonite

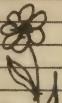
D.

8:00
 9:00
 10:00
 11:00
 12:00 ~~✓~~ Gramps'
 1:00 wedding
 2:00 
 3:00
 4:00
 5:00 ~~✓~~ Drive Gramps
 6:00 & Vera to train
 7:00
 8:00
 Reminders
 Don't forget rice!

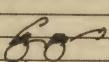
E.

8:00
 9:00
 10:00 ~~✓~~ exterminator
 11:00
 12:00
 1:00 ~~✓~~ New Wave
 2:00 Fashion Show
 3:00
 4:00
 5:00
 6:00
 7:00 ~~✓~~ Charlie - D.F.D
 8:00
 Reminders
 Confirm train
 reservations to
 Niagara Falls
 Car in shop - remind
 Charlie to get a
 ride to D.F.D

F.

8:00
 9:00 
 10:00
 11:00 ~~✓~~ Madelyn M
 12:00 ~~✓~~ Hair at
 1:00 Unitarian Church
 2:00
 3:00 ~~✓~~ Concert in park
 4:00 "The Smithereens"
 5:00
 6:00
 7:00 ~~✓~~ Mother's Day
 costume party at
 8:00 Norman's
 (come as your mother)
 Reminders
 124 E. 44
 Apt 3D

G.

8:00
 9:00 See if Polly
 can drive to
 10:00 N.W. Fashion
 11:00 Show
 1:00
 2:00 
 3:00
 4:00 ~~✓~~ Bring car in
 5:00 for P&P
 6:00
 7:00
 7:30 See the ducks
 8:00 meeting
 Reminders
 dinner - leftover
 goulash

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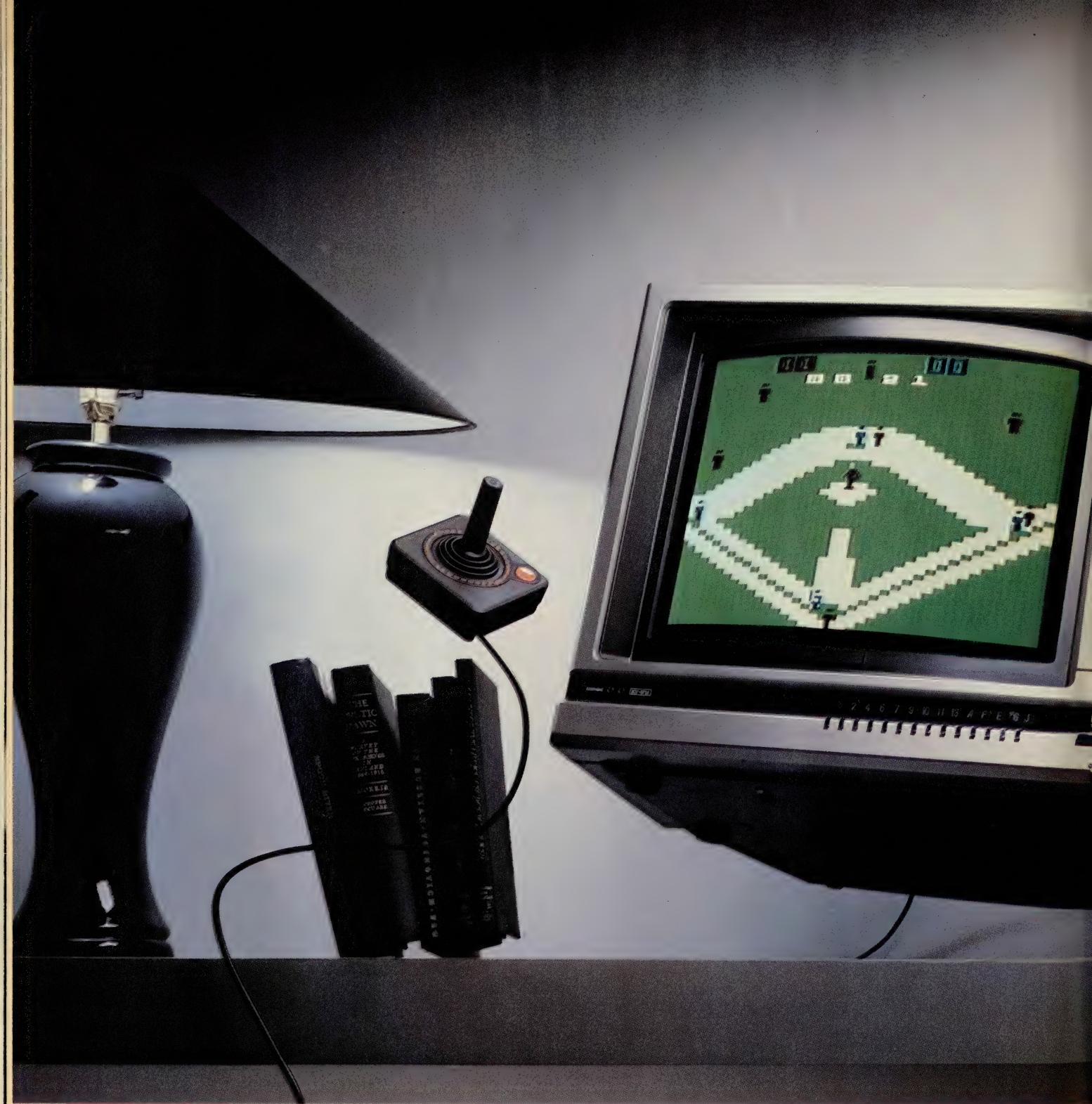


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*And our challenging game-
play makes every performance
spectacular.*

*Because M Network™ video
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PRISING EFFECT ON YOUR ATARI® VCS.

and many more games to come.

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out of your Atari® VCS
put our games into it.*



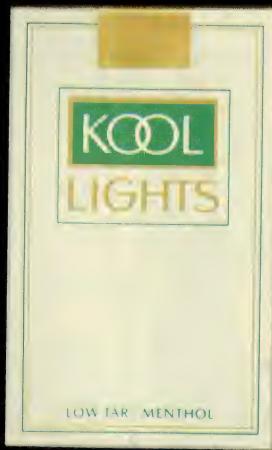
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way to play it.**

There's only one sensation this
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The taste doesn't miss a beat.

Kings and 100's.

Kings, 9 mg. "tar", 0.8 mg. nicotine, 100's, 10 mg. "tar",
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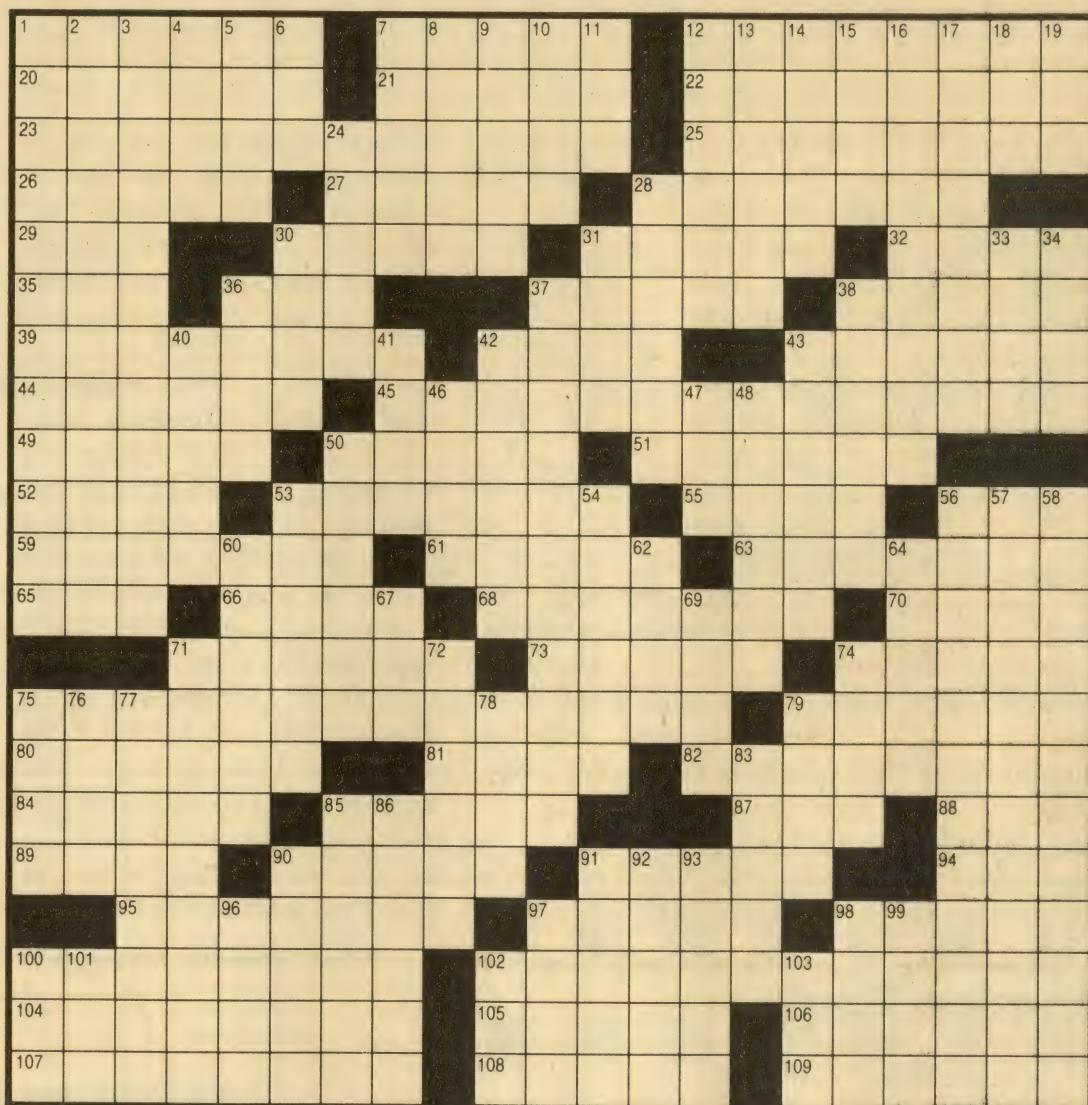
Warning: The Surgeon General Has Determined
That Cigarette Smoking Is Dangerous to Your Health.

Happy Haunting Ground ★★

by Merl Reagle

ACROSS

- Ye olde poets
- Studies hard and fast
- Dirty Harry in the movies
- Writer Wylie
- Woman of Paris?
- Martian's history?
- With 45-Across, query to Bob Hope in *Cat and the Canary*, 1939
- Touch of color
- Wall climbers
- Ram on high?
- Witch doctor's whammies
- Where to trawl
- Lets off
- Math pioneer Karl
- Disease fighters
- X-ray scanner, for short
- Je, objectively
- Beatrice's beau
- Accepts
- Luxury
- Guitarist Hendrix
- \$100-a-plate attire
- Fluctuates
- See 23-Across
- Upright
- Wherewithal
- Leonard's ring rival
- Pool hall gizmo
- NASA base
- Q-V filler
- Monogram of one of the "3 Bs"
- Actors' guild chief
- Munchies for Manuel
- Pudding variety
- German article
- Ex-footballer Karras
- Accommodates the portraitist
- Wooley of "Purple People Eater" fame
- Hurt
- Dudgeon
- Quest of TV cartoons
- Bob Hope's reply, with 102-Across
- Christmas time
- One of Oz's "if-I-only-hads"
- Factual, old style
- Goes across: Ital.
- Bottlenecks



Answer Drawer, page 86

85 "____Theme," from *Doctor Zhivago*

87 Chopper

88 Huge utility: Abbr.

89 Arizona Indian

90 Type of songbird

91 Out of touch, nowadays

94 Mutt's medic

95 Disneyland site

97 "____, feel me . . ."

98 "Then honour be but ____ to my will": Shak.

100 Balcony scene?

102 See 75-Across

104 Somewhat dry, to 106-Across

105 Gropes

106 Wine expert, at times

107 Mecca for kids with cash

108 ESP, for example

109 Knot-tying tables?

DOWN

1 Took new interest in

2 Arlen song of 1931

3 HO caboose, e.g.

4 *Deutsche* duck

5 Shoplifts

6 ____ Lanka

7 Dear, in Dijon

8 Undo an IOU

9 *Montagnes suisses*

10 New York nine

11 Bend in a ship's plank

12 Let the ____ (divulge)

13 Melodic

14 Gives for a time

15 Nuts

16 Bluesy instruments

17 Welcome mat's secret?

18 Farming: Abbr.

19 Funnyman Louis

24 Requiring fertilization

28 Go "poof!"

30 Loads of lifetimes

31 Ready for action

33 Overhaul

34 Not care ____

36 Contact in person

37 Severs relations

38 Find or be found

40 Has at a lollipop

41 Irish exclamation

42 Post-coup regimes

43 Seafood sauce

46 Tobacco-drying kiln

47 Pulpit talk: Abbr.

48 Part on dolly

50 Actress Jeanne

53 "Can't ____" (phrase of inevitability)

54 When to bring up won ton?

56 Actor from Englewood, NJ

57 Animal or baby, cinematically

58 Future terrors of the desert

60 Informants, sometimes

62 Len Deighton novel

64 "This ____ of those songs . . ."

67 Greek letters

69 Podiatry concern

71 Fantasts

72 Cut the hedge again

74 Baloney

75 One of CSN&Y

76 "Phooey!"

77 Revel of 1773

78 "Phooey again!"

79 Like scone troughs

83 Zipped

85 Munich music

86 Each

90 Stage: Prefix

91 $\frac{1}{13}$ of this number

92 Rings out

93 Lighten the mood

96 Surgeon-to-be's study: Abbr.

97 Snick and ____

98 Of grandparents

99 Nucleus

100 Word with get or jet

101 Prefix for outside

102 Possibilities

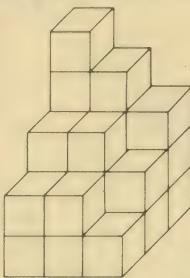
103 Abbr. on a sked

Can You Think Under Pressure? ★★

by Will Shortz

This test measures your ability to follow directions and think clearly under pressure. It is said that people who score well make good teachers, computer technicians, and masochists. You have exactly six minutes to read and answer the following:

If the letter X appears before the comma in this sentence, cross it out. Otherwise draw a wavy line under the word SEX. Circle the odd man out: happy, glad, euphoric, gaiety, delighted. How many cubes appear in the stack at right? _____ If a horse has five legs, draw a circle in this square , but if it doesn't, leave it blank, and answer the negative of this question incorrectly: How old are you? _____



What four coins add up to 26¢? _____

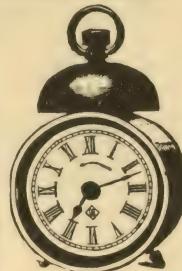
If cats can't bark, write DOG in this space _____, but if Nebraska is larger than Texas, enter BIG here _____. Be sure to write NO here if March is the third month of the year. _____ Read each word of this sentence in reverse and answer in the space provided: tahW seod "golf" lleps drawkcab? _____ Don't write PIG in this blank _____, unless oxygen is a metal or birds can't fly. True or false: All tested students were accepted; Marty was rejected;

ing questions. Have a pencil ready, and a clock or stopwatch handy to time yourself. When the six minutes are up, stop working, whether or not you're finished.

On your mark, get set, go! *Answer Drawer and Ratings, page 69*

therefore, Marty was not tested. _____ If yesterday was three days before Friday, what will tomorrow be? _____

Name five words that start and end with the letter M.



What relation is your brother's uncle to you? _____

Don't neglect to put a check mark in this square , even if Millard Fillmore was once President of the United States. The time shown by the clock above is 7:12. Approximately what time would it be if the hour and minute hands were reversed? _____

Write HOT at the bottom of this page: Hold it! If the word COLD doesn't have the same number of letters as HOT, write ICE at the bottom of the page instead, unless a refrigerator is not cooler than a stove, in which case just write BRRRR. Count the number of Ns in this sentence and enter your answer in this blank _____. If this quiz was too hard for you, write I QUIT at the end of this sentence. Otherwise just write I QUIT.

Domino Logic ★★

by Steve Wilson

Puzzle and Game

The 8 x 7 rectangle below represents an ordinary set of dominoes (double-zero through double-six) in which the pips have been replaced by digits and the outlines of the dominoes removed. Can you recover the outlines—through logic—to show the set? The puzzle has only one solution.

Answer Drawer, page 66.

5	3	2	2	1	1	1	0
1	0	6	3	0	5	6	4
4	3	5	4	2	3	1	5
4	6	6	1	5	5	2	2
4	0	5	1	3	6	6	0
2	4	5	2	2	3	3	0
6	0	3	4	1	0	6	4

For 2 Players

"Domino Logic" makes an interesting game for two players. It was popular in the gentlemen's clubs of Edwardian England at the turn of the century.

To play, you and an opponent each need an ordinary double-six set of dominoes, pencil, and paper. Sit where you cannot see each other and arrange your dominoes in an 8 x 7 rectangle, either randomly or with care and cunning. When you are done, record the pattern of numbers in grid form on a piece of paper, producing an array like the one at left, and copy your arrangement on another piece of paper in case of a question later.

When you are both done, exchange grids. Then, try to rearrange your dominoes as quickly as possible so that the numbers match those in your opponent's grid. (Any arrangement that fits the grid is acceptable, whether or not it's the same as your opponent's.) The first player to finish wins.

Note: Before starting each round, count the number of times each digit appears in the grid to make sure there are eight each of the numbers 0, 1, 2, 3, 4, 5, and 6.

Cryptic Crossword ★★

by Mike Shenk

The Warm-Up Puzzle at right contains all the basic types of clues you're apt to encounter in a cryptic crossword. Like all cryptic clues, each contains two parts: a direct or indirect definition of the answer and a second description of the answer through wordplay. The first step in solving a cryptic clue, and a great part of the fun, is to determine the dividing point between the parts. Consider some sample clues:

"That messy assortment of jewels! (9)." This is an example of an anagram. The letters in the words "that messy" can be rearranged to spell the answer AMETHYSTS, which is defined as "jewels." The word "assortment" indicates that the adjacent letters are to be rearranged. An anagram clue always contains a word or phrase (like "crazy," "reorganized," or "in a heap") that suggests mixing or poor condition.

"Fee to burn large appliance firm (6)." Here you must join two short words to form the answer. "To burn" is CHAR, "large appliance firm" is G.E., and the combination, CHARGE, is defined as "fee." This is known as a charade clue.

"We're told the English school has had dinner (5)." A famous English school is ETON, which sounds the same as the answer EATEN (defined as "had dinner"). Homophone clues like this are indicated by words like "we're told," "listen to," or "oral."

"Blue jeans material is dug up (5)." This clue is for a Down word. The answer, DENIM ("blue jeans material"), is MINED ("dug") reading upward. Other reversal clues may be signalled by words like "backward," "the wrong way," or "in retrospect."

More hints on clue-solving have appeared in previous issues. If you are new to cryptic crosswords, start with the Warm-Up Puzzle at right and refer to the Answer Drawer for explanations.

ACROSS

- Mysteries of mine gas explosion (7)
- Paycheck and ruby comprise bet (7)
- Basketball penalty for foul line catch (9)
- My pet cuckoo's hungry (5)
- Leader of battleships follows a route overseas (6)
- Area of sand, volcanic ashes, and ore (8)
- Forest's edge divided city, in time (10)
- Cashews in jar returned (4)
- Surf is bound to be heard (4)
- Couriers' meal: tossed greens (10)
- Nonsense—extraterrestrial in a news flash (8)
- Party demonstrator (6)
- Central America's educators boxed in? (5)
- Mutant iguana swallows auto in Central American land (9)
- Small off-Broadway theater is filthy (7)
- Sourly snorted "Rats!" (7)

DOWN

- Competitor in tournament ran third (7)
- Bring in mongrel (5)
- Authorizations for fellow on June 6 and July 4, for example (8)
- Belt and hosiery (4)
- Carelessly winds reels of *Badlands* (10)
- Foolishly agrees to do a car job (6)
- Player getting money in contract copy (9)
- Lack of rain gear holds New York up (7)
- Loyalty, for example, is integral to treaty (10)
- Olympic winners made new records (9)
- Secure, in addition to holding a job (8)
- Explorer, heading north on business, leaves from Havana? (7)
- Free press features ad layouts (7)
- Annoy needlessly at the outset (6)
- Move back and forth on a cart (5)
- Scholar's shell is a battle souvenir (4)

Warm-Up Puzzle for New Solvers ★

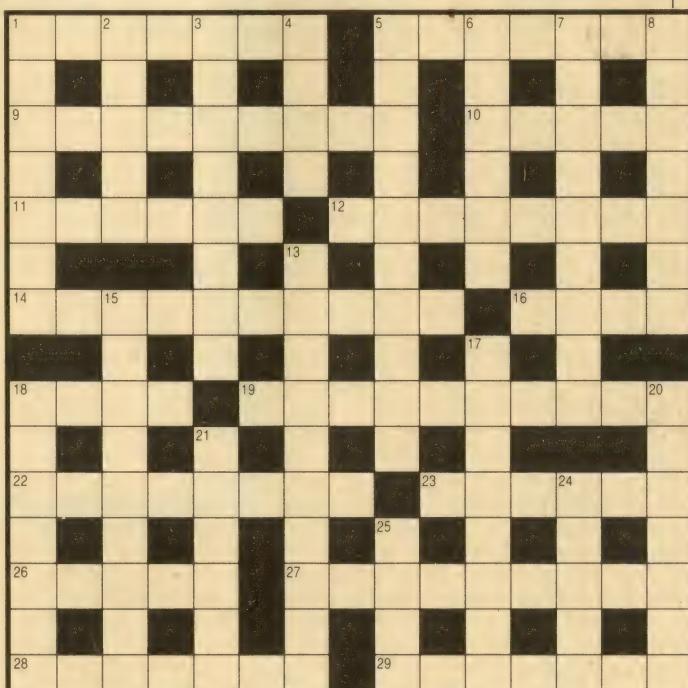
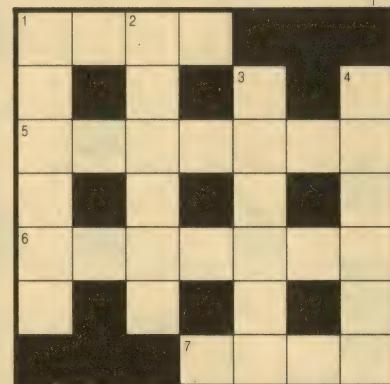
With detailed explanations in Answer Drawer, page 72

ACROSS

- Friends strike back (4) reversal
- Reduces homework assignments, we hear (7) homophone
- Watch monarch going on a hunt (7) charade
- Votes for President after Grant is beheaded (4) beheadment

DOWN

- Wax from Warsaw? (6) second definition
- Turned silent to hear a speech (6) anagram
- Driver, if young, has to give proof (6) hidden word
- Wise man goes through U. S. customs (6) container



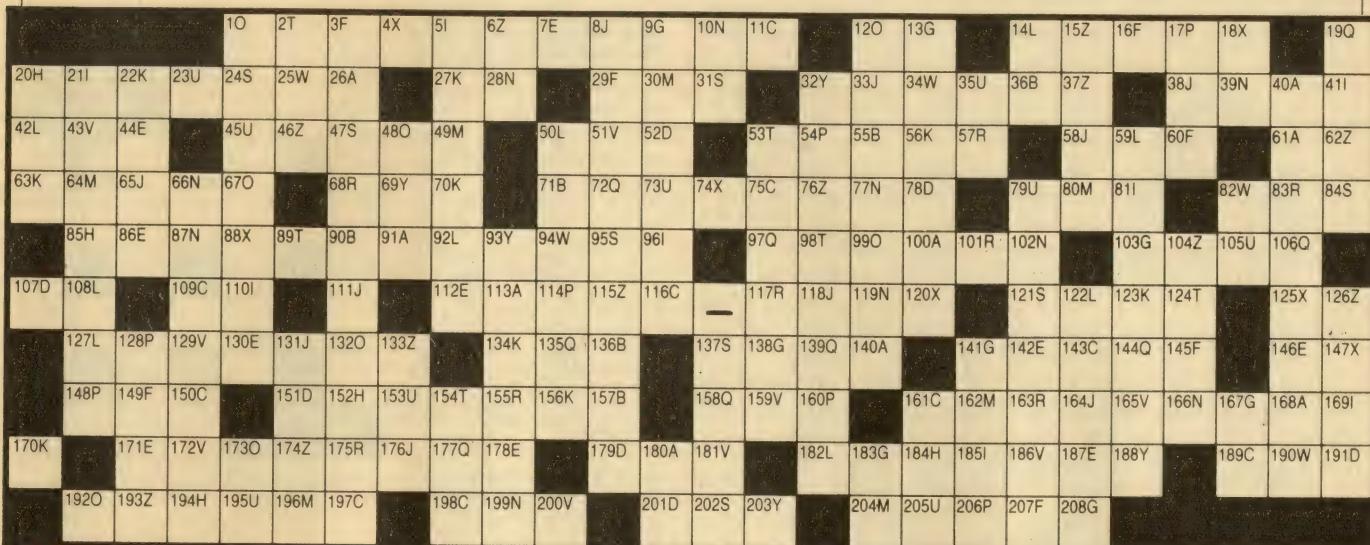
Answer Drawer, page 66

Double Cross ★★

by Michael Ashley

Answer the clues for words to be entered on the numbered dashes. Then transfer the letters on the dashes to the correspondingly numbered squares in the puzzle grid to spell a quotation reading from left to right. Black squares separate

words in the quotation. Work back and forth between grid and word list to complete the puzzle. When you are done, the initial letters of the words in the word list will spell the author's name and the source of the quotation. *Answer Drawer, page 68*



A. Antechamber, foyer	100	168	26	40	113	61	180	140	91	N. Private matter generally known (2 wds.)	10	87	77	199	28	39	166	102	66	119
B. Mosslike growth	36	55	71	90	136	157				O. Like Mt. St. Helens	173	132	99	—	1	192	67	12	48	
C. Magnetic pull	143	150	189	197	198	161	116	109	75	P. Fezzed fraternity member	17	54	114	128	148	160	206			
D. Coarse linen fabric	52	78	107	151	179	191	201			Q. With all possible speed	19	72	97	106	135	139	144	158	177	
E. Disloyalty, breach of trust	146	44	112	171	178	187	142	7	130	R. Airy, tenuous	57	68	83	101	117	155	163	175		
F. Kind of cigarettes	3	16	29	60	145	149	207			S. Toward the wind, nautically	95	121	24	47	31	202	84	137		
G. Gave a shot, hypodermically	9	13	103	138	141	167	183	208		T. Act obsequiously	124	2	154	89	98	53				
H. Scarlett's Butler	20	85	152	184	194					U. Storage, metaphorically	73	205	153	195	45	79	23	35	105	
I. Columbus's discovery (2 wds.)	110	5	185	41	21	169	96	81		V. Bewitched	43	51	129	159	165	172	181	186	200	
J. Cut short, curtail	118	38	58	164	33	176	131	111	8	W. "Game, set, —"	25	34	82	94	190					
K. Most tart	22	27	56	63	70	123	156	170	134	X. Votes against	125	4	74	88	18	120	147			
L. Cloud the issue	122	182	127	59	108	14	50	92	42	Y. River through Bonn	32	69	93	188	203					
M. Faculty or skill (hyph.)	49	80	30	64	162	196	204			Z. Freshness, vigor	37	174	104	6	15	126	193	46	133	

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UMSA4

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CITY _____ STATE _____ ZIP _____



42 Where the cochlea are
43 Dog Day Afternoon setting
47 Kind of sandwich
49 Sauvignon blanc, e.g.
50 Chiropter
51 Public contest
52 Lists
53 Companion of Artemis

Id's Henry Card

by Henry Hook

This and the next two pages has two clues: "Hard" and "Easy." First, fold the dashed line so the clues below face page 45. If you use only the Hard Clues (and continuing under the grid), you'll find them challenging. If you need help, rechallenge, open to the Easy Clues (our fold on page 44). Remember, to is up to you.

★★★

Sends an SOS, maybe
Humbert's temptation
Don's daughter: Abbr.
Dostoevski's *Folk*
Tholes
Hellenic 2 cents worth?
Tidal river
Flashy
Nautical rope
New England
Quick dashes
Contemporary
of Confucius
Any
Products of Bartolomeo
Cristofori
Marxist doctrine
Delinquent watchman
End for photo or thermo
Counterman's card
Al Aaraaf
poet
Judge
Plus column entry
Source of monkey bread
92 He played
Pal Joey
94 Hooligan of Paree
96 Green land
97 Shampoo ingredient, at times
99 Londoners' "lids"
101 Author of *The American Language*

106 Town near Arnhem
107 Eppie's guardian
108 End of a dogwatch
111 Motel sign in Marseilles
112 _____ cover (philatelist's prize)
114 *Mondo Cane* theme
115 Two-tone horse
117 High school in *Grease*
118 "Whips," in the locker room
119 Extra bed, maybe
120 End of a Wilde title
122 Hardly a mirage
123 "Welcome!"
124 Double-crosser
125 Lunchbox desserts
126 Summers in the Big Apple: Abbr.
127 "Look _____, I'm as helpless . . ."
129 One who broods
132 Imaret
133 Words on cutlery
135 First name in gossip
137 L'Amour's love, with "the"
141 Environment: Abbr.
142 "Mr." with a toolbox
143 . . . *River Kwai* actor
145 French horn
147 Walk stealthily
149 Mouselike
151 Van Eyck painting of 1433, with "A"

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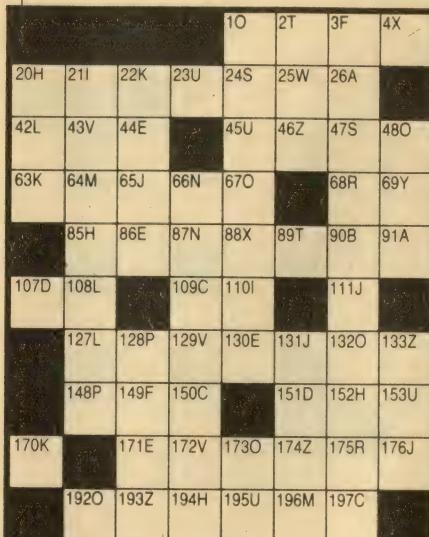
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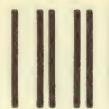
Double Cross ★★

Answer the clues for words to be ent dashes. Then transfer the letters on the correspondingly numbered squares in the quotation reading from left to right. B



- A. Antechamber, foyer 100 168 26 40 113
- B. Mosslike growth 36 55 71 90 136
- C. Magnetic pull 143 150 189 197 198
- D. Coarse linen fabric 52 78 107 151 179
- E. Disloyalty, breach of trust 146 44 112 171 178
- F. Kind of cigarettes 3 16 29 60 145
- G. Gave a shot, hypodermically 9 13 103 138 141
- H. Scarlett's Butler 20 85 152 184 194
- I. Columbus's discovery (2 wds.) 110 5 185 41 21 169 96 81
- J. Cut short, curtail 118 38 58 164 33 176 131 111 8 65
- K. Most tart 22 27 56 63 70 123 156 170 134
- L. Cloud the issue 122 182 127 59 108 14 50 92 42
- M. Faculty or skill (hyph.) 49 80 30 64 162 196 204

by Michael Ashley



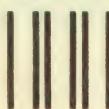
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W. "Game, set,
_____" 25 34 82 94 190

X. Votes against 125 4 74 88 18 120 147

Y. River through
Bonn 32 69 93 188 203

Z. Freshness,
vigor 37 174 104 6 15 126 193 46 133

62 76 115

The Idiot Box ★★ by N.M. Meyer

Each row and each column in this 6×6 grid contains the six-letter name of a well-known TV show, past or present. The names read in order from left to right and top to bottom, one letter per square. Cross off the letters as you find the names. When you're done, the 36 uncanceled letters—reading in order from left to right—will spell a topical thought by Frank Lloyd Wright.

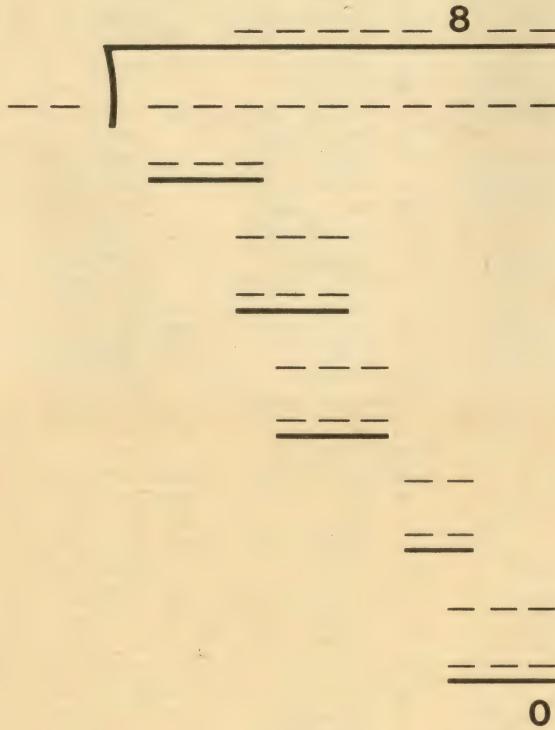
Answer Drawer, page 66

	1	2	3	4	5	6
1	K TQ	B UE	M NL	E LG	T VF	I FU
2	B US	I EA	T OA	A MN	I AO	N ST
3	I LH	A NI	N RK	E SR	Y PC	H' OR
4	N FE	W AS	M IN	N IS	G PL	Y OG
5	U CD	O MA	F LI	L OI	E AR	T OS
6	C HY	E NA	X MN	N EI	N OR	P DN

Digititis ★★ by Mark Kantrowitz

We've removed virtually all the digits from the long-division problem below. The object is to replace the numbers, one digit per dash, so that the completed division is mathematically correct. A little logic and simple arithmetic are all you need to find the unique solution. Answer Drawer, page 69

Answer Drawer, page 69



FOLD THIS PAGE

The World's Most Ornery Crossword

by Henry Hook

Odds and Ends

The crossword on this and the next two pages has two independent sets of clues: "Hard" and "Easy." First, fold this page back on the dashed line so the clues below face the solving grid on page 45. If you use only the Hard Clues (appearing below and continuing under the grid), you'll find the puzzle uncommonly challenging. If you need help, or prefer a less severe challenge, open to the Easy Clues (tucked in beneath your fold on page 44). Remember, to peek or not to peek is up to you.

Hard Clues ★★

ACROSS

ACROSS	
1 Room mate?	55 Sends an SOS, maybe
6 Calgary hockey team	58 Humbert's temptation
12 Old ___, noted English theater	60 Don's daughter: Abbr.
15 Women to remember?	61 Dostoevski's ___ Folk
20 Not a moment too soon	62 Tholes
22 Where Savaii is	64 Hellene's 2 cents worth?
24 Strauss or Goethe	66 Tidal river
25 Where to roll out the barrel?	68 Flashy
26 Contractor	69 Nautical rope
27 California county	70 New England
28 Anonymity	72 Quick dashes
29 Spring peeper, e.g.	73 Contemporary of Confucius
31 Bring ___ Head of Alfredo Garcia (Sam Peckinpah film)	75 Any
33 Cake	76 Products of Bartolomeo Cristofori
34 Privy to	78 Marxist doctrine
35 Staples	80 Delinquent watchman
37 One of a TV trio	82 End for photo or thermo
40 Homes for modern nomads: Abbr.	85 Counterman's card
41 Showed disdain toward	86 Al Aaraaf poet
42 Where the cochlea are	87 Judge
43 Dog Day Afternoon setting	89 Plus column entry
47 Kind of sandwich	90 Source of monkey bread
49 Sauvignon blanc, e.g.	92 He played Pal Joey
50 Chiropracter	94 Hooligan of Paree
51 Public contest	96 Green land
52 Lists	97 Shampoo ingredient, at times
53 Companion of Artemis	99 Londoners' "lids"
	101 Author of <i>The American Language</i>
	106 Town near Arnhem
	107 Eppie's guardian
	108 End of a dogwatch
	111 Motel sign in Marseilles
	112 ___ cover (philatelist's prize)
	114 <i>Mondo Cane</i> theme
	115 Two-tone horse
	117 High school in <i>Grease</i>
	118 "Whips," in the locker room
	119 Extra bed, maybe
	120 End of a Wilde title
	122 Hardly a mirage
	123 "Welcome!"
	124 Double-crosser
	125 Lunchbox desserts
	126 Summers in the Big Apple: Abbr.
	127 "Look ___, I'm as helpless . . ."
	129 One who broods
	132 Imaret
	133 Words on cutlery
	135 First name in gossip
	137 L'Amour's love, with "the"
	141 Environment: Abbr.
	142 "Mr." with a toolbox
	143 . . . <i>River Kwai</i> actor
	145 French horn
	147 Walk stealthily
	149 Mouselike
	151 Van Eyck painting of 1433, with "A"

The World's Most Ornery Crossword (Continued)

Don't Peek Until You
Read Page 43!

Easier Clues *

ACROSS

1 Chess surface
6 Go up in ____ (burn)
12 Singer Damone
15 The ____ and the Papas
20 Just in time: 3 wds.
22 Where Pago Pago is
24 ____ Sebastian Bach
25 Noted honeymoon spot: 2 wds.
26 Vise
27 Citrus fruit
28 America song, "A Horse With ____": 2 wds.
29 Woodland frog: 2 wds.
31 "Give ____ Night" (George Benson hit): 2 wds.
33 Solidify
34 Aware of: 2 wds.
35 Grocery items
37 Singing sister of Barbara and Louise: 2 wds.
40 Camper trailers: Abbr.
41 "Nothing to be ____": 2 wds.
42 Dumbo's wings
43 Word after piggy or river
47 Essence of a sundae: 2 wds.
49 Sportscaster Scully
50 Tool for Yastrzemski
51 Dramatic conflict (A NOG anag.)
52 Tilts to one side
53 Ellington's "Take ____ Train": 2 wds.
55 AM, FM, and CB
58 Nabokov's nymphet
60 Spanish miss: Abbr.
61 Penniless

62 Rowboat devices
64 Greek coin
66 Arm of the sea
68 Like Dixieland music
69 Ship's rope (YET anag.)
70 Northern U.S., to Southerners
72 Letters after em
73 Founder of Taoism (ZL AUTO anag.)
75 ____ Like It Hot
76 "Baby" or "grand" instruments
78 Disbelief in God
80 One who catches 40 winks
82 Number in a Gallup poll: Abbr.
85 Bill of fare
86 The Raven poet
87 Consider
89 Procure
90 Thick-trunked African tree (ABBA BO anag.)
92 Singer Frank
94 Geronimo was one
96 Ireland, poetically
97 Drink (ugh!) for Rocky: 2 wds.
99 @, @, @
101 Noted American newspaperman: 3 wds.
106 Palindromic Dutch town
107 Eliot's ____ Marner
108 When "prime time" starts: 2 wds.
111 Opening: Fr. (CAVE CAN anag.)
112 "On the ____ of Christmas . . .": 2 wds.
115 Reddish-gray horse
117 '50s singer Bobby
118 "His & Hers" wipers
119 Couch
120 The Importance of Being ____
122 Factual
123 Kin of blvd. or st.
124 Hair snarl
125 Cream-filled sponge cakes
126 "Spring-ahead" times in NYC: Abbr.
127 "Don't throw bouquets": 2 wds.
129 Chicks follow her: 2 wds.
132 Country hotel
133 Metal for pots and pans: 2 wds.
135 Columnist Hopper
137 Wagon train direction
141 Air: Abbr.
142 Mr. ____ (handyman)
143 California Senator S. I.
145 ____ /'œil/ (optical illusion)
147 Walk "through the tulips"
149 Shy
151 Jan Van Eyck portrait with "A": 4 wds.
153 Removes obstructions
154 Linda Lavin sitcom
155 "Lollapaloozas"
156 Scampered like a rabbit
157 ____ Vegas
158 Captures
159 III

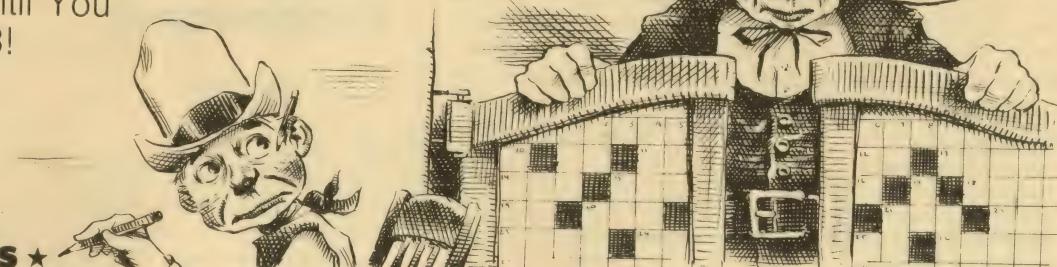
114 Greater quantity
115 Reddish-gray horse
117 '50s singer Bobby
118 "His & Hers" wipers
119 Couch
120 The Importance of Being ____
122 Factual
123 Kin of blvd. or st.
124 Hair snarl
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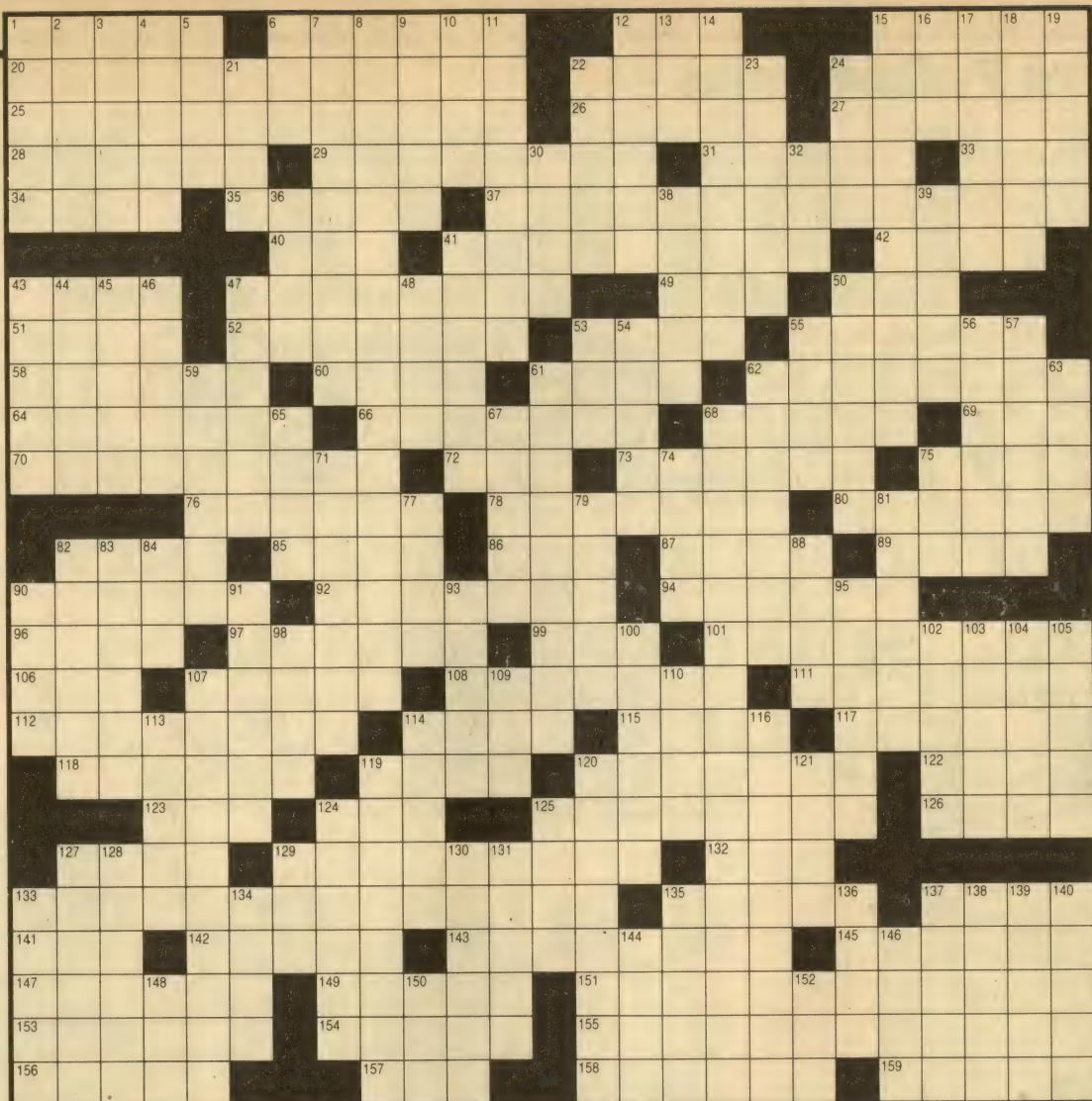
DOWN

1 Name in Nehemiah 10:15 (a rabbit?)
2 Tear-inducing vegetable
3 A Bell for ____
4 Linda Blair role, in *The Exorcist*
5 Small amount
6 Housing org.
7 Last night's dinner, today
8 "Oscar" presentations, e.g.: 2 wds.
9 The "M" in M.P.H.
10 ____ Stanley Gardner
11 39-line lyric poems
12 Coffee-grower Juan
13 "____ little teapot": 2 wds.
132 Country hotel
133 Metal for pots and pans: 2 wds.
135 Columnist Hopper
137 Wagon train direction
141 Air: Abbr.
142 Mr. ____ (handyman)
143 California Senator S. I.
145 ____ /'œil/ (optical illusion)
147 Walk "through the tulips"
149 Shy
151 Jan Van Eyck portrait with "A": 4 wds.
153 Removes obstructions
154 Linda Lavin sitcom
155 "Lollapaloozas"
156 Scampered like a rabbit
157 ____ Vegas
158 Captures
159 III

45 Pitching ace Ryan
46 New York basketball player
47 "____ saw, I conquered": 3 wds.
48 Spaks flax (TRES anag.)
50 American educator Jacques (BUZ RAN anag.)
53 Rocky peak (ORT anag.)
54 "According to ____"
55 Bronx cheer
56 Eight-legged sea creatures
57 Paratroopers
59 Organization in Harper Valley: 2 wds.
61 Minister's home
62 Porridge
63 Fortune teller
65 Eve's fella
67 Inappropriate
68 Cleopatra director: 2 wds.
71 Something to have or wend: 2 wds.
74 Verdi opera
75 Health resort
77 Vocalized
79 1970s British P.M. Edward
81 The "A" in C.I.A.
82 "There, I ____ Again": 2 wds.
83 Bullfighter
84 Mr. Lincoln
88 Roman 1905
90 Jerky or Wellington
91 Harness section
93 The ____ Aquarius: 2 wds.
95 Valentine symbols
98 Cry of woe
100 Harm by overexertion
102 Military group

103 Similar to "elbowed"
104 Brilliance
105 Dudley Do-Right's girl, et al.
107 Susan's White House brother: 2 wds.
109 A Gershwin
110 X-rated movies, for short
113 Hindu religious teacher
114 Wool eaters
116 "No, thank you": Ger., 2 wds.
119 Didn't budge from the chair: 2 wds.
120 Ram's daughters: 2 wds.
121 Transmit
124 Name meaning "little rose"
125 Not we
127 Leader of the Huns
128 Meddle (with)
129 Neighbor of the U.S.: Abbr.
130 "Right vs. wrong" philosophy
131 Aptly named English novelist
133 Louis Armstrong's nickname
134 Falsehoods
135 Vietnam city
136 Aleutian island
137 "For what it's ____"
138 Glowing coal
139 Extra tire
140 Jittery
144 Cabbagelike vegetable
146 Corrosion on metal
148 Edison's monogram
150 Actress Farrow
152 Able-bodied seamen: Abbr.





Answer Drawer, page 69

Hard Clues (cont'd)

153 Makes the hurdles
154 Tarkington's
 Miss Adams
155 TV quiz show
 1980-82
156 Ran fast
157 Musical notes
158 Usurps
159 In Esperanto
 it's *tri*

1 Levitical name
2 Kind of rings
3 Hersey locale
4 Name in the
 Reagan Cabinet
5 Armstrong's
A ____ of Poison
6 Mortgage org.
7 Stew, often
8 Dinners for
 winners
9 ____ O'Keefe, Bo
 Derek's Tarzan
10 First name in
 mysteries

11 Verses by Pound
 and Auden
12 ____ is Coming!
 (1971 film)
13 Miss Hogg of
 Texas
14 Certain stage
 play, in Italy
15 Like the female,
 according to
 Kipling?
16 "Gotcha!"
17 Horse trough
18 Autry's team
19 1960s Olympic
 runner Peter
21 Contrary to
 Judaic dietary
 laws
22 E.g., "1 inch =
 1,000 miles"
23 Missing link
24 Magna Carta king
30 City near Provo
32 Work a shuttle
36 Boat in which
 Richard Dreyfuss
 pursued "Jaws"

38 Heroine's
 protestation?
39 See 22-Down
41 Thurmond's
 realm
43 Epithet for
 the glabrous
44 Ancient bazaar
45 The Man
 Without a
 Country
46 Willis Reed,
 for many years
47 *Veni*, and part
 of *vidi*
48 Steeps
50 *Of Human
 Freedom* author
53 Site for an
 aerie?
54 The "last word"
 in games
55 Ridicule
56 Ink makers?
57 Parachutists
59 School grp.,
 somewhat
 formally

61 Ministry
62 Winter
 breakfast
63 Tarot reader
65 *Bonanza* brother
67 Wrong
68 *Sleuth*
 director
71 On ____
 (progressing)
74 Amneris's love
 rival
75 Oasis of sorts
77 Chinese dynasty,
 960-1279 A.D.
79 Rhododendron,
 e.g.
81 Means
82 "You ____!"
83 Cuadrilla
 member
84 Ex-Justice
 Fortas
88 Multiple of
 CXXVII
90 Gripe
91 Equine
 restraint

93 The ____
 Enlightenment
95 Card game
98 Word of sorrow
100 Section of music
102 Core group
103 Nudged, in
 a way
104 Acclaim
105 Gwyn and others
107 Former "First
 Son"
109 Novelist Levin
110 Smut
113 Master
114 Foes of hose
116 Polite refusal
 in Aachen
119 Obeyed the
 barber /
120 Farmer's
 daughters?
121 Sentence, with
 "up"
124 Name for a
 señorita
125 Bridge-score
 heading

127 Brutality
 personified
128 Toy (with)
129 Cancun's
 country: Abbr.
130 Morals
131 *Hard Cash*
 author
133 "Hello, Dolly"
 singer
134 Campaign
 promises,
 to a cynic
135 Asian capital
136 Alaskan island
137 Merit
138 Hearth minutia
139 /
140 Grammarian's
 concern
144 Collard's kin
146 "Diamonds and
 ____"
148 Scottish
 preposition
150 "... ____ name I
 call myself"
152 Not pres.

DOWN

1 Levitical name
2 Kind of rings
3 Hersey locale
4 Name in the
 Reagan Cabinet
5 Armstrong's
A ____ of Poison
6 Mortgage org.
7 Stew, often
8 Dinners for
 winners
9 ____ O'Keefe, Bo
 Derek's Tarzan
10 First name in
 mysteries

Picture Palindromes ★★

by Emily Lime

Each of the pictures below represents a palindromic phrase—a phrase spelled the same forward and back. The answer to each picture can be written on the corresponding

dashes, one letter per space. For example, the first picture shows RACE CAR. We'll leave the other 9 for you to reflect on.

Answer Drawer, page 70

Example



1.



2.



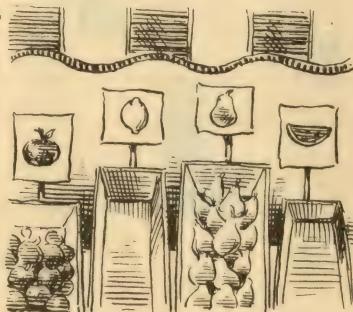
3.



4.



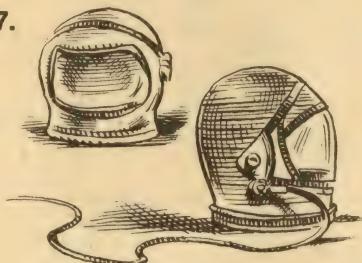
5.



6.



7.



8.



9.



Example: RACE CAR

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

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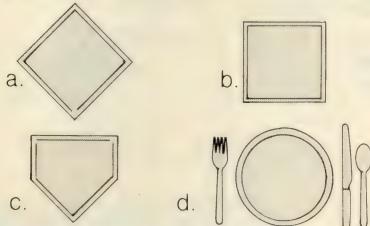
The EVEN-IF-YOU-HATE-SPORTS Sports Quiz ★★

By Curt Slepian

If you think Abdul-Jabbar is an OPEC nation, the draw play was invented by Picasso, and clutch refers only to cars, don't despair. This quiz will show how much you *do* know about team sports . . . in spite of yourself. As for you hard-core sports fans, you just may find yourselves fumbling for some of the answers. *Answer Drawer, page 68*

1

Which is the correct shape of home plate on a baseball diamond?



2

Any sports figure worth his no-cut contract will have a colorful nickname. Select the correct origin of the following athletes' monickers.

Julius "Dr. J" Erving . . .

- a) completed pre-med courses before turning pro
- b) operates on the court as deftly as a surgeon on his patients

"Mean" Joe Greene . . .

- a) is a ferocious, intimidating football player
- b) in real life never shares his Coke

"Marvelous" Marv Throneberry . . .

- a) was a truly marvelous baseball player
- b) was a truly terrible baseball player

Wilt "The Stilt" Chamberlain . . .

- a) was so tall he always seemed to be playing on stilts
- b) did play on stilts until the practice was banned

Gordie "Blinky" Howe . . .

- a) blinks frequently because of an old hockey injury
- b) skated "quick as a wink" when he played for the Red Wings

"Paw Paw" Charlie Maxwell . . .

- a) grew up within hailing distance of Paw Paw, Michigan
- b) "pawed" the batter's box when he came up to hit, like a bull preparing to charge

3

Late in a hockey game the Bruins lead the Islanders 3-2. A Bruin skater, in a funk because he lost his few remaining upper teeth in a fight, accidentally shoots the puck into his own team's net. What is the score after this occurs?

4

There are so many teams around it's hard to keep their names straight—especially when they move every other year. Which of the following are real teams?

a) Chicago Sting	f) Los Angeles
b) San Antonio	Lakers
Alamos	g) Calgary Flames
c) Utah Jazz	h) Pittsburgh
d) Kansas City	Bitumen
Caribou	i) California
e) Seattle	Fruitflies
Seahawks	j) Toronto Blue Jays

5

Put the head on the correct body and identify each person.



6

What's the average total amount of action time (as opposed to clock time) in a pro football game?

- a) 12½ minutes
- b) 30 minutes
- c) One hour
- d) Weekend after weekend after weekend . . .

7

Which of the following comments is Howard Cosell *not* likely to make during a game (extra credit if you can't identify Humble Howard):

- a) "Giffer, once again the action just substantiates what I emphasized at the top of the show . . ."
- b) "... and as I said to the commissioner of the NFL the other night over dinner . . ."
- c) "Let me tell it like it is without obfuscation—if there's an ounce of quit in that scrappy little pepper pot, you've got a scoop."
- d) "I'm certainly no expert on that subject, so I couldn't offer an opinion."

8

A smart fan must master sports jargon. Define the following words and phrases and match each to its sport (baseball, football, basketball, hockey, or soccer):

a) Punt	g) Billyball
b) Jump ball	h) Goon
c) Beanball	i) Blitz
d) Slap shot	j) In your face, chump
e) 360° slam dunk	
f) Bomb	k) Shootout

9

Statistics enable a fan to carry on long, fascinating arguments. See if you can make these basic baseball computations:

- If a player gets 3 hits in 10 official at bats, what is his batting average?
- If a pitcher allows 1 earned run in 9 innings, what is his earned run average?
- If a superstar free agent signs a 5-year, \$5 million contract with partly deferred payments, and gets a Mercedes and a condo as a bonus, what are his taxes after the first year?

10

A good fan should keep informed about an athlete's off-field career. True or false:

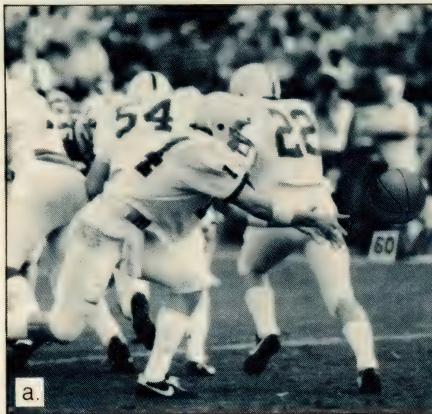
- O.J. Simpson appeared in *Roots*.
- Reggie Jackson played himself in the TV movie "The Reggie Jackson Story, Part I: The Early Years."
- Merlin Olsen stars in "Father Murphy."
- Jim Thorpe was in *Bonzo Goes Ape*.
- Joe Namath starred in the sitcom "The Waverly Wonders."

11

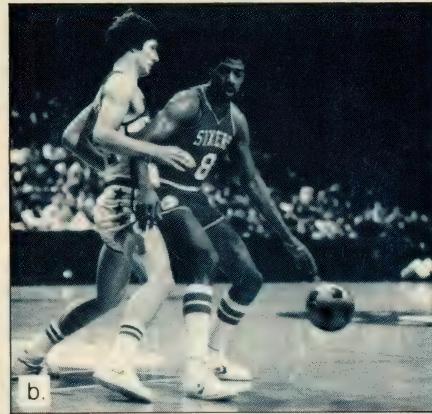
When Dandy Don Meredith describes a quarterback as "scrambling," what does he mean? And who's Dandy Don?

- The quarterback is barking the signals in code to confuse the other team.
- He's preparing a halftime snack of eggs.
- He's dodging defensive linemen the size of mid-priced Datsuns while looking for an open receiver.
- He's handing the ball off to the outside linebacker.

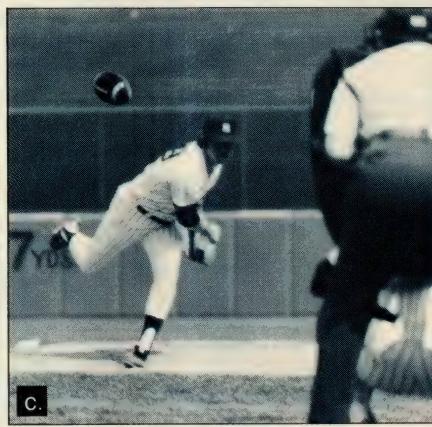
What's wrong with each picture?



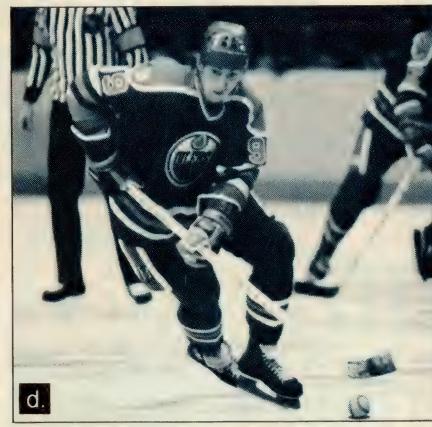
a.



b.



c.



d.

14

Figure out the quantities below and use them to determine the value of X in the following equation:

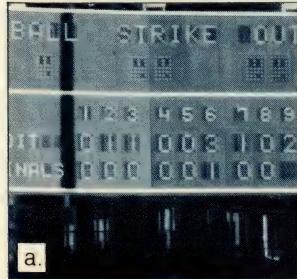
$$(a+b)(c+d)(f(a+e+f)) = X^*$$

a = runs scored by a grand slam home run
 b = points in a touchdown
 c = periods in a soccer game
 d = points scored on a three-point shot in pro basketball
 e = goals needed for a hockey player to score a hat trick
 f = pinch-hit home runs by Gus Zernial in his career

* The average number of bags of peanuts sold in R.F.K. stadium during a football game.

12

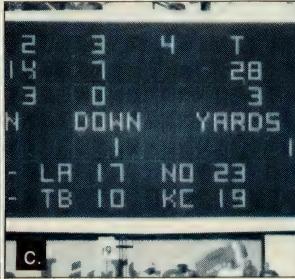
A scoreboard is very useful to the novice fan. It indicates whether you're attending a football, baseball or basketball game. Match the scoreboard to the sport.



a.



b. FIRST SAVINGS



c.

13**15**

In 30 words or less, describe Ronald Reagan's football philosophy when he played for Eureka College in Illinois.

16 Two-Minute Drill

It's 4th down, 10 questions to go, and the game's on the line. Use this mini-quiz to determine your sports I.Q.: 0 correct—veteran sports-hater; 1-3—blissfully ignorant; 4-7—know more than you think; 8-9—know more than you want to know; 10—super fan.

- For most of his career Babe Ruth played on what team?
- "Using your head" applies literally to what sport?
- What is the name of the NHL championship playoffs?
- Name Boston's pro basketball team.
- During a baseball game, where do relief pitchers warm up?
- Who broke baseball's "color line"?
- How many points is a field goal worth in football?
- In football, does a guard play on offense or defense?
- How many men at a time play on a hockey team?
- In basketball, what is the official height of the basket?

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CRYPTO TILES

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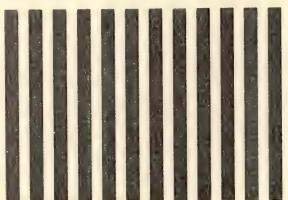
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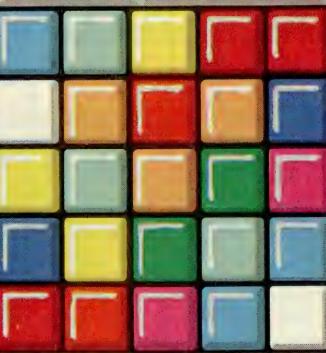
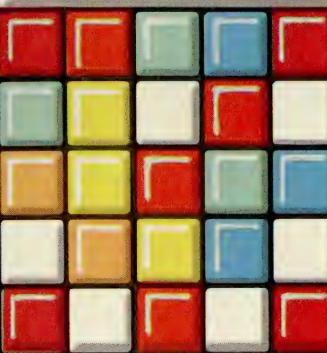
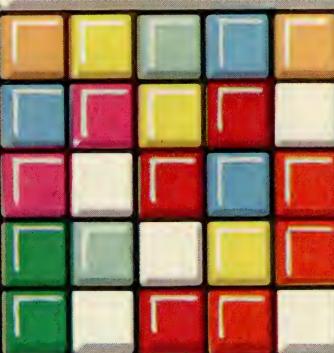
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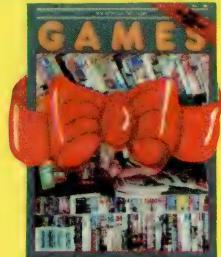
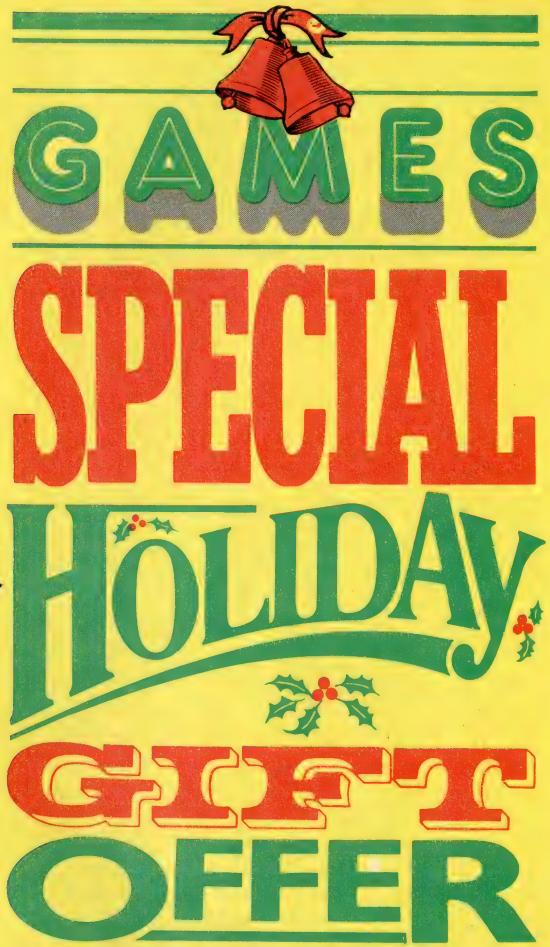
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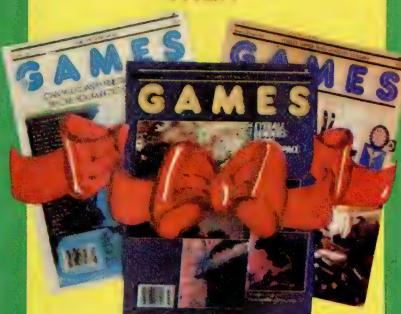
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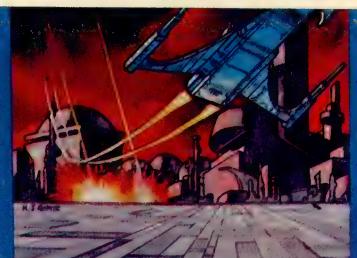


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CRYPTOTILES

Color-Coded Crosswords

by Wayne Williams



These puzzles combine elements of crosswords and cryptograms, but solving them is mainly an exercise in logic and intuition.

Fill in each 5 x 5 grid with the 25 letters listed below it, forming five-letter words that read across in every row and down in every column, as in a crossword puzzle. Each color in a grid, with the exception of white, must be filled in with the same letter of the alphabet throughout that grid. White squares are filled in with letters that appear only once in that grid. The four red tiles in the first grid, for example, must all be filled in with E, since E is the only letter that appears four times on that grid's letter list; while the single letters B, D, I, M, N, O, P, T, U, V, and Y must be distributed among the 11 white tiles.

Note: Each grid is a separate puzzle; the color that represents a given letter of the alphabet in one grid may represent a different letter in another grid.

Answer Drawer, page 69

1
EEEE AAA CC
SSS RR
BDIMNOPTUVY

2
EEEEEE RRR AA
SSS CC
TTT OO
IMNPW

3
AAAAA DD TT
EEEEE LL VV
SSSS NN
IOPR

4
EEEEE RRR AA
OOOO BB
SS
GLNPTVWX

5
AAAAA RRR KK
EEEEE NN
SS
DHILMTVY

6
EEE TTT FF
III SS
LLL AA
BDNPR

7
AAAAA EEE OO
SSSS RRR
TTT
DILNPW

8
AAA SSS LL
FFF TTT NN
OOO EE
CH

Phaser

Patrol



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Andy Breyer
"The graphics on Phaser Patrol™ are as good as on many arcade games. And the game itself is designed to stay challenging. Even to me."



Odd Even

TWO GAMES, A PUZZLE, AND A CHALLENGE
BY
SID SACKSON

The Games ★

Players Two

Equipment Thirty-six pieces (coins or other markers), and the board shown.

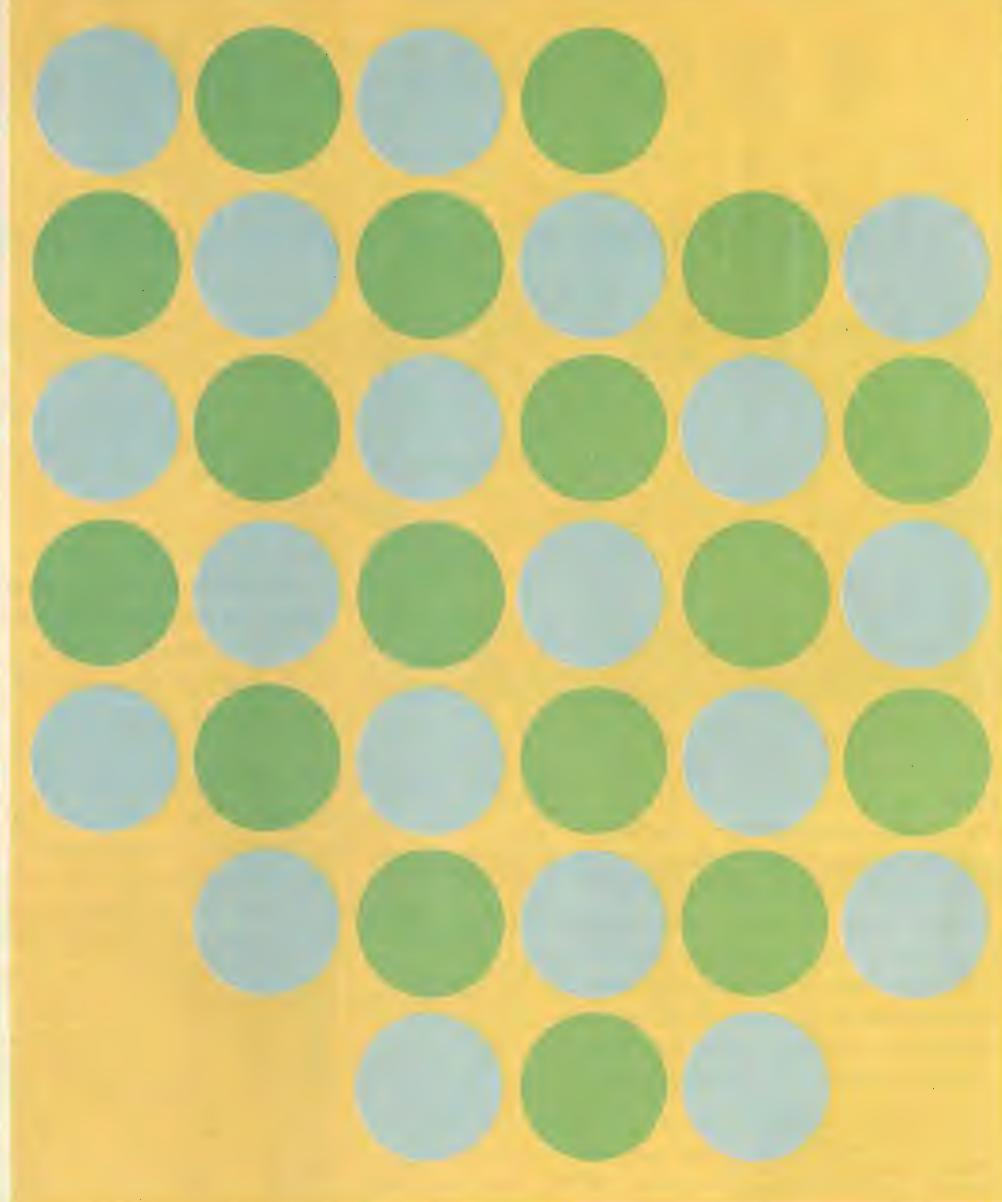
Rules for "Odd"

The first player, chosen randomly, places a piece on any one of the 36 circular spaces on the board. The second player then places a piece on any space that is adjacent to the first piece in any direction (horizontally, vertically, or diagonally). Thereafter, each player in turn places a piece on an empty space that satisfies both these conditions:

1. It must be adjacent to the last piece placed by the opponent.
2. It must be adjacent to an odd number of previously placed pieces (either 1, 3, 5, or 7 pieces, but not 2, 4, 6, or 8).

The first player unable to place a piece according to these rules loses.

Example: In the following diagram, the first move of the game is indicated with a "1," and the second move with a "2," and so on. The player placing the fifth piece has



won, since both open spaces next to that piece are adjacent to an even number of pieces.



Rules for "Even"

The game of Even is played the same way as Odd, except that each move must be placed adjacent both to the last piece played and to an even number of other

pieces. The "even" restriction does not apply until the third move of the game; otherwise the first player would always win at once!

Suggestion In playing Odd or Even, it's a good idea to mark the last piece played. If you are using pennies for pieces, you might place a dime on top of the last piece played and move the dime after each turn.

Solitaire Puzzle ★★

Using the rules of Odd, can you fill in all 36 board spaces without making an illegal move? Hint: The choice of your first move is important. *Answer Drawer, page 69*

An Unsolved Challenge ★★

Although we were able to fill in all 36 board squares playing solitaire using the rules of Odd, we couldn't find a way to leave fewer than four spaces empty when we played solitaire using the rules of Even. Since this intrigued us, we'll send a *Games* T-shirt to the first 10 readers who send us a perfect 36-move solution for Even solitaire. Mail solutions to Even solitaire, c/o *Games*. If we don't receive a perfect solution by 11/10/82, we'll send a T-shirt to the person who was first to submit the highest score as of that date.



THE LOGICAL CHOICE FOR DELICIOUS TASTE.

The Laurelton Logic and Liqueur League consists of two married couples who meet regularly to have dinner followed by logic problems, travel talk, and their favorite after-dinner liqueurs from The Creamery. Their first names, in no order, are Albert, Bonnie, Cliff, and Doris. Their professions are, again in no order, architect, banker, conductor, and designer. The four flavors of liqueurs are Cara Mia Amaretto, reminiscent of Italy; Droste Cream, made from Dutch chocolate; Dunphy's Cream, made with Irish spirits; and Wimbledon Strawberries and Cream, suggestive of the famed English tennis matches. Recently, all four members of the LLLL returned from European vacations, each member visiting a different country; the four visited countries were England, Ireland, Italy, and the Netherlands. Can you, with these clues, match each member to his or her spouse, the country he or she visited, his or her profession, and his or her favorite cream liqueur from The Creamery?

TO ENTER THIS MONTH'S GAME: Complete the Logic problem and mail your name, address, age and T-shirt size (please print) along with your completed puzzle or facsimile to: CREAMERY CONTEST, P.O. Box 3016, Westbury, N.Y. 11519. Entries must be received by October 31, 1982. Enter as many times as you wish but each entry must be mailed in a separate envelope. Prize winners will be determined in a random drawing among correct entries by independent judges whose decision is final. No prize substitutions. Winners will be notified by mail. "The Creamery" Contest is open to all residents of the U.S. who are of legal drinking age in the states of their residence. Void where prohibited or restricted by law. Employees and their families of Fleischmann Distilling Company, affiliates and agencies are not eligible. For a list of major winners, send a stamped, self-addressed envelope to: CREAMERY CONTEST WINNERS, P.O. Box 3082, Westbury, N.Y. 11591.

CREAMERY CLUES:

1. No member visited the country suggested by his or her favorite liqueur.
2. Bonnie did not visit Italy.
3. Neither the conductor nor Doris visited the European continent.
4. The Cara Mia lover was best man at the wedding of the architect and the member who visited Italy.
5. The Dunphy's lover and the designer are married to each other.
6. The visitor to England and the conductor are a married couple.
7. Albert's wife is the Droste lover.
8. The banker and the member who visited Italy are of the opposite sex.
9. Neither the Wimbledon lover nor Bonnie visited Ireland.

THIS MONTH'S PRIZES:
1st PRIZE
A refrigerator unit for a home bar to chill your Creamery products.

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"The Creamery" truck jig-saw puzzles.
100-3rd PRIZES
"I Got Creamed" T-shirts.

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Cara Mia Amaretto Cream Liqueur, 34 proof, produced and bottled by Fleischmann Distilling Co., Pekin, Ill. Droste Cream Liqueur, 34 proof, produced and bottled by Droste Liqueurs, U.S.A., Pekin, Ill. Wimbledon Strawberries and Cream Liqueur, 34 proof, produced and bottled by Fleischmann Distilling Co., Pekin, Ill.

GAMES & BOOKS

Edited by R. Wayne Schmittberger

Trax (available from Excalibre Games, Box 32407, Fridley, MN 55432; \$8 includes postage)

Tiles that fit together to form paths are nothing new, but their use in this game, the brainchild of New Zealand game inventor David Smith, is fascinatingly different. For one thing, all 64 tiles are identical. For another, there's no board.

Each tile has two sides, one depicting a "crossroads," the other quarter circles. Players place tiles alternately, either side up, onto any flat surface. Connecting paths must be the same color, and the tile array may not exceed eight rows and eight columns, but there are no other placement restrictions—a player may, if he wishes, place a tile that extends or turns a path of his opponent's color.

Each player's goal is to form either a "loop"—a path that connects with itself (which can include as few as four tiles)—or a "line," a continuous path of at least eight tiles that connects two opposite edges of the array. If a placement creates an empty space with two lines of the same color leading to it, the space is filled with the appropriate tile in the same turn.

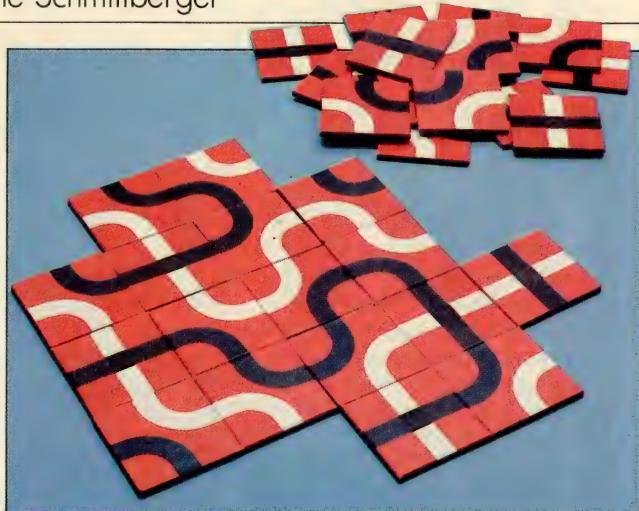


Mhing (Suntek International, around \$20)

Based on Oriental versions of mah-jongg, Mhing employs an exotic 150-card deck made up of suit cards (Bamboos, Dots, Characters), honor cards (Winds, Dragons), assorted flowers, and wild cards. Two to six can play, but four is best.

As in rummy, players draw and discard cards in an attempt to collect certain sets—usually either sequences within a suit, or groups of identical cards (there are four each of most cards). But unlike rummy, Mhing allows for many other types of card combinations, which earn sharply varying scores according to the difficulty of obtaining them. When a player completes a 14-card hand, he is paid the value of his hand by the other players (chips are provided for this purpose).

The rulebook is a masterpiece of clarity. Beginners should learn a simple "Level One" scoring system, then progress to higher levels by gradually adding new types of scoring hands. The complete scoring system is slightly simpler than that of Chinese mah-jongg; but unlike American mah-jongg, Mhing does retain the flavor of the original game. —R.W.S.



Though a game between experienced players rarely ends with completion of a loop, a threatened loop can divert your opponent from his own plans and can even force him to help you with yours. —S.S.

Frisky Tom (Bandai, around \$55)

If you're like us, *E.T.* has taken some of the fun out of blasting aliens—we now prefer to exterminate mice. Frisky Tom comes from the grand tradition of ultra-super-realistic video games. You play a plumber (Tom) who tries to keep water flowing through a snaking pipe system. Your adversaries are mice who constantly knock out sections of pipe. You must maneuver Tom to catch the falling sections and then to climb ladders or swing Tarzanlike along the plumbing to put the sections back in place. You have to be careful not to swing under the mice, though, or they'll bite your fingers and make you fall. Once you get good, the mice become really nasty and light bombs. But if you're holding a piece of pipe and find yourself next to a mouse, press the attack button and bop it. As we said, ultra-super-realism.

Frisky Tom is one of the best adaptations we've seen of an arcade game to a hand-held or tabletop game. It has excellent graphics, highly responsive controls, and even a button that allows you to turn off the sound. The game itself is so silly and whimsical that you just keep starting it again and again—it's more addictive than salted peanuts. —JA



Winning Ways by Elwyn R. Berlekamp, John H. Conway, and Richard K. Guy (Academic Press, 1982, 2 vols., 850 pages, \$117 hardcover, \$45 paper)

In the field of recreational mathematics, no more ambitious book has ever been attempted. The result—reflecting some 15 years of effort, according to the authors—is a staggeringly impressive work that will richly reward those who take the time to explore it.

And you will want to explore it if you've ever wondered how to analyze games like nim or kayles, dots-and-boxes or fox and geese, the Tower of Hanoi or Rubik's Cube; or to calculate the value of a move, to recognize "hot" and "cold" positions, to master the intricacies of the purple mountains, green jungles, and redwood furniture of Hotchpotch Hackenbush; or to explore such game theory concepts as ugliness, uprightness, remoteness, and loopiness.

The authors go through complex reasoning with such facility that they scarcely give us time to catch our breath as they glide from problem to theorem. But those who follow them diligently will be delighted with the variety of puzzling situations that will seem solvable for the first time.

The following position from the book should be solvable, even if the reader has not yet seen the book's analysis entitled "Toads-and-Frogs Completely Dissected":

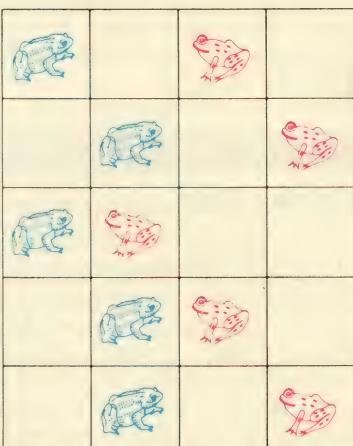
Toads-and-Frogs

Left has trained a number of Toads (*Bufo vulgaris*) and Right a number of Frogs (*Rana pipiens*) to play the following game. Each player may persuade one of his creatures either to move one square or to jump over an opposing creature, onto an empty square. Toads move only Eastward, Frogs only to the West (*toads to, frogs fro*). The game is to be played according to the normal play rule that a player unable to move loses.

Who should win? And does it matter who moves first?

Answer Drawer, page 69

—R.W.S.



ETCETERA

Cosmic Wimpout (Cosmic Wimpout Inc.; around \$3 for basic set, or \$7 for Home Court Game with felt board shown), is a lighthearted dice game with a growing cult following. Score points by throwing dice combinations, but take care—if you don't quit when you're ahead, you may wimp out!



Ball Puzzle (available from Customer Sales Service, Museum of Modern Art, 11 W. 53 St., New York, NY 10019, for \$36 plus \$2 postage) is a small (1 1/2" diameter) but quite heavy brass sculpture. Putting the six pieces back together takes dexterity even when you know how.



Ricochet (Epyx/Automated Simulations, available on cassette for Atari 400/800 [16K with BASIC ROM cartridge] and TRS-80 [16K, Level II], or on disk for Atari 400/800 [32K], TRS-80 [TRS-DOS 32K], and Apple [48K with Applesoft in ROM]); around \$19.95

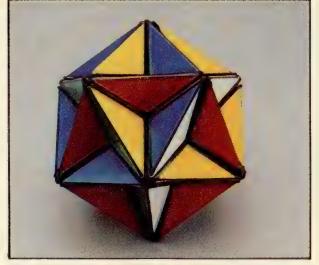
Ricochet is a one- or two-player computer game of pure strategy that is displayed on a color television screen with arcade-style graphics and sound effects. Even if GAMES Contributing Editor Bernie DeKoven were not its creator, we would still applaud it for its unique combination of video-like action with strategic maneuvers and planning.

Each player has either two or four goals (depending on the game variation chosen), initially protected by a pyramid of six paddle-shaped pieces; and two launchers located in the corners, with five "balls," or shots, per launcher. A turn consists either of repositioning one or more pieces, which can move a space horizontally or vertically, or of taking a shot with either launcher. Every piece hit by a ball scores one point; every opponent's goal or launcher hit scores 10 points.

Whenever a piece is hit, its orientation changes from vertical to horizontal, or vice versa. Since a ball often makes 50 or more ricochets before it exits the screen, a single piece may be hit, and will therefore rotate, many times in a single turn. This makes it very hard for players to calculate all the resulting ricochet angles before deciding whether to shoot or reposition pieces.

There are many other excellent features: four different computer opponents, a referee that handicaps the leader in a match, a "smart clock" that penalizes players who move less quickly than their opponents, a built-in rating system, and more. Ricochet promises to be a classic among electronic games—right up there with Pac-Man and Breakout. —P.M.W.

Alexander's Star (Ideal, \$12) rotates on 12 different planes, and is solved when the background behind each five-pointed star is a single color. Its difficulty level seems somewhere between that of Rubik's Cube and Rubik's Revenge. The instructions offer a solution book by mail (\$2), and we think you'll need it.



Advanced Dungeons & Dragons Monster Cards

(TSR Hobbies, \$3 per set), available in four different sets of 20, provide an excellent playing aid for the best-known fantasy game. Each card depicts a frequently encountered monster on one side, with a description of its abilities and list of its numerical attributes on the back.

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It hooks up to your black and white or color TV for video display. And it comes with a comprehensive instruction book that takes you step-by-step into the world of computers.

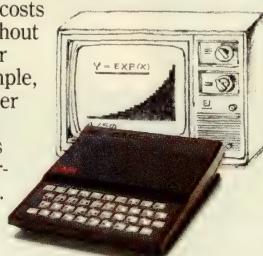
You and your children will learn how computers work. How to write your own programs. Even how to create computer games.

And Sinclair offers dozens of ready-to-use software packages. Try your skills at a game of chess. Learn famous composers and musicians. Computerize your personal budget. These programs and more are described in our software catalog which you'll receive with your ZX81. The programs come on cassette tapes, and work with a standard cassette recorder or player.

How did we do it?

Other personal computers cost hundreds, even thousands of dollars more. How did Sinclair create a personal computer for less than \$100?

We did it by developing an innovative design that cuts costs dramatically without cutting computer power. For example, our unique Master Chip replaces as many as 18 chips used in other personal computers.



Sinclair programs are available

Sinclair technology is also available in Timex/Sinclair computers under a license from Sinclair Research Ltd.



The \$99.95 personal computer.

The success of the ZX81 speaks for itself. It is now the fastest-selling personal computer in the world. And we stand behind our product. If anything goes wrong in the first 90 days, we'll repair or replace it free of charge. Even after that, our national service-by-mail facilities are as close as your post office.

Why now?

Why should you take the time right now to order your Sinclair?

Because computers have become an important part of everyone's life. In business, you'll find them on the desks of both secretaries and presidents. In schools, you'll find them in a growing number of classrooms. Even in grade schools.

For less than \$100, the Sinclair ZX81 will get you started in personal computing right now. Your children will gain an understanding of computers that will benefit them the rest of their lives. And you will be prepared to make informed decisions about using and buying computers, both in your career and in your home.



Free guide to programming

There's never been a better time to buy a personal computer.

And for only \$99.95, there's never been a better price.

How to order today.

Call our toll-free number and use your MasterCard or VISA. Or send the coupon along with a check or money order.

Then try out the ZX81 for 10 days. If you're not satisfied, just return it to us and we'll refund your money.

Call toll free: 800-543-3000.

Ask for operator #509. In Ohio call: 800-582-1364; in Canada call: 513-729-4300. Ask for operator #509. Have your MasterCard or VISA ready.

Phones open 24 hours a day, 7 days a week. These numbers are for orders only.

If you just want information, please write: Sinclair Research Ltd., 2 Sinclair Plaza, Nashua, NH 03061.

To order call toll free 800-543-3000 Operator #509

AD CODE: AOGM	Sinclair Research Ltd., One Sinclair Plaza, Nashua, NH 03061.		
Yes! I'd like to try the Sinclair ZX81 personal computer. I understand that if I'm not completely satisfied, I can return it in 10 days for a full refund.			
PRICE†	QTY.	AMOUNT	
ZX81 personal computer	\$99.95		
Add shipping	\$4.95	— \$4.95	
TOTAL			
†U.S. Dollars <input type="checkbox"/> Check or money order enclosed.			
Name _____			
Street _____			
City _____		State _____	Zip _____

sinclair

EYEBALL BENDERS ★★



1 



2 



Close Encounters of the Furred Kind

(FEATHERED AND SCALED)

When was the last time you looked an anteater in the eye? Unless you've recently returned from Kenya, Tanganyika—or San Diego—we'll wager it's been a while.

Here's a chance to answer the call of the wild without venturing into the bush. We sent our photographer through more than 100 acres of natural habitat, home to 800 rare and endangered species, otherwise known as the San Diego Zoo. He made eye contact with 17 members of the animal kingdom. Can you identify these birds and beasts from a look at their baby blues (or browns, or reds)?

Fewer than five correct, and you're hopelessly urban; six to 10 earns you a slap on the hide; 10 or more and you're fair game for a real safari. And if you recognize more than 15 creatures in this menagerie, you're king—or queen—of the jungle.

Answer Drawer, page 68



3 



4 



5 



6 



8 ↑



↓ 11



12 ↑



↑ 14

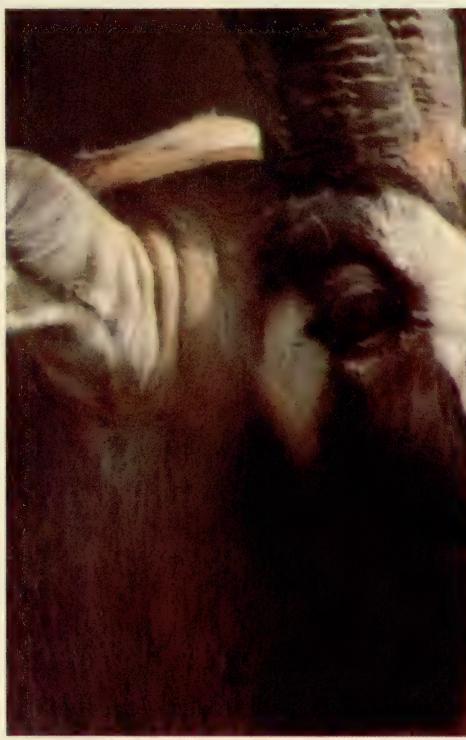
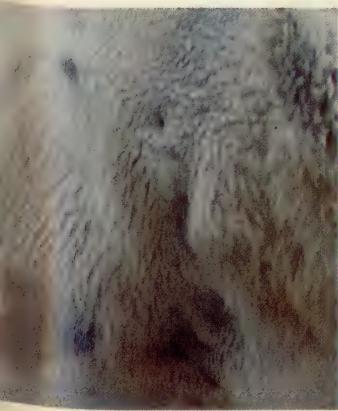


← 15



↑ 9

10 ↓



↑ 13

16 →



17 →

CONTEST RESULTS

AIR RACE
from May/June

The pinball maze reproduced below was much more difficult than any we had previously published. The object was to move through the network, scoring points at bumpers, without reusing any section of the white path (though bumpers could be hit more than once). Hitting a "lit" bulb meant posts of that color were worth double. (Yellow posts were lit by hitting A or J, and "turned off" by hitting D; green posts were lit by hitting B, and so on.) Hitting posts G and K added 10 bonus points for each flag hit up to that point. Hitting post L scored 25 points and post M 50 points for each color "lit" at the time.

More than 15,000 contestants attempted the maze, and some 1,050 tied with the high score of 3,465. (A number of higher scoring entries were found to have made mistakes.) The winner,

drawn randomly from the group that tied, is Bruce Ladendorf of Plainsboro, New Jersey. His grand prize—a full-size, coin-operated Atari Tempest arcade game—is particularly appropriate: He's a Tempest fanatic with a high score of 696,000, which he earned by reaching level 70 on the machine. With Tempest in his living room, Bruce hopes to get all the way to level 99. A programmer, he used a computer to solve the contest, but he thinks it might have been nearly as easy to solve "by hand."

Runner-up prizes of a *Games* T-shirt go to: Wayne Bollinger of Chesterfield, VA; Jerry Felix, Chris Hauck, and Joe Felix of Cincinnati, OH; Garr Lystad of Lewisville, TX; Martin S. Montes of El Paso, TX; and Jeff Taylor of Atherton, CA.

—R.W.S.

The Winning Entry

POST HIT	POINTS	
125 Yellow	125	D
25 Red	25	25 Red
(Flag # 1)	—	35 Purple
10 Yellow	10	(Flag # 3)
15 Green	15	20 Green
(Flag # 2)	—	25 Purple

E	—	35 Purple	35
(Flag # 5)	—	B	—
5 Purple (near E)	5	20 Green (lit)	40
60 Red	60	15 Yellow	15
(Flag # 6)	—	F	—
E	—	(Flag # 7)	—
50 Yellow	50	40 Yellow	40

35 Purple	35
B	—
20 Green (lit)	40
15 Yellow	15
F	—
(Flag # 7)	—
40 Yellow	40
30 Green (lit)	60
(Flag # 8)	—
15 Purple	15
J	—
(Flag # 9)	—
5 Purple (near J)	5
(Flag # 10)	—
40 Green (lit)	80
(Flag # 11)	—
J	—
(Flag # 12)	—
M (50 x 2 lights)	100
30 Green (lit)	60
(Flag # 13)	—
300 Purple	300
30 Yellow (lit)	60
H	—
(Flag # 14)	—
25 Green (lit)	50
40 Purple	40
65 Yellow (lit)	130
H	—
G (10 x 14 flags)	140
15 Green (lit)	30
20 Purple	20
(Flag # 15)	—
G (10 x 15 flags)	150
30 Yellow (lit)	60
70 Green (lit)	140
L (25 x 3 lights)	75
30 Yellow (lit)	60
5 Purple (near E)	5
300 Purple	300
60 Red (lit)	120
15 Purple	15
35 Red (lit)	70
M (50 x 3 lights)	150
(Flag # 16)	—
15 Purple	15
(Flag # 17)	—
K (10 x 17 flags)	170
(Flag # 18)	—
10 Red (lit)	20
40 Yellow (lit)	80
K (10 x 18 flags)	180
J	—
80 Red (lit)	160
40 Green (lit)	80
FINISH	—
Total Score	3465

"DEFEND ATLANTIS"
OFFICIAL CONTEST RULES

1. To enter, print your name, address and phone number on an official entry form or on a 3 by 5 piece of paper and mail to: "Defend Atlantis," P.O. Box 82136, St. Paul, MN 55182.

2. Each entry must be accompanied by an Atlantis proof-of-purchase seal, which can be found in the back of all Atlantis instruction books.

3. Each entry must also be accompanied by a photograph showing your peak score on Atlantis game #1 (other Atlantis games do not qualify). Note: The peak score is your final Atlantis total score and will be clearly designated as such on your TV screen at the completion of the game. Your name, address and telephone number must be clearly printed on the back of the photograph. All photographs must be readable and become the property of *Imagic*. None will be returned. *Imagic* is not responsible for lost, late or misdirected mail.

When photographing your screen **DO NOT USE A FLASH**. Hold camera steady. For a 35mm, use a tripod or table. For an Instamatic 126 or 110, insert a dead flash to force lens open.

Any photograph that is duplicated, forged, mutilated, altered, illegible, tampered with, mechanically altered or irregular in any way is automatically void. We reserve the right to validate scores.

4. You may enter as often as you wish, but only one prize per contestant will be awarded and each entry must be mailed in a separate envelope and be accompanied by a photograph and proof-of-purchase seal, as described above. Proof-of-purchase seals and photographs may not be duplicated.

5. All entries must be received by October 24, 1982. Winners will be notified by October 31, 1982.

6. Prizes will be awarded as follows: Four individuals with the highest peak scores will be invited to compete in the Great Defend Atlantis Shoot-Off on November 14, 1982 in Bermuda. The four winners must make the Bermuda trip on November 13-15, 1982 in order to qualify for the Grand Prize (\$10,000 in gold). If any finalist cannot make the Bermuda trip on the specified date, he will be awarded a \$1,000 runner-up prize. The fifth highest scorer will then be invited on the trip and be eligible for the grand prize but not for a runner-up prize. If there are tie scores in determining the contest winners, supplementary peak photographs will be required. Contestants with tie scores will be contacted by telephone and given the opportunity to submit a tie-breaking score.

No substitutes for trips or prizes will be offered, other than as stated above. Each finalist (plus one guest) will receive round trip economy class air transportation from home airport to Bermuda, double room accommodations (or the equivalent) for 3 days and 2 nights, ground transportation plus \$50 per day for meals, tips, etc. If any of the winners is a minor, his or her guest must be a parent or guardian.

On November 14, 1982 all four finalists will compete in a shoot-off for 1 hour. Peak scores during that time, as recorded by the judges, will receive the grand prize. In addition to the trip to Bermuda, prizes are as follows: Grand Prize: \$10,000 2nd Place: \$1,000 3rd Place: \$1,000 4th Place: \$1,000. Winners may use their cash awards towards the cost of a college education for themselves or a loved one. Winners, however have the option of using their prizes in any manner they select.

ADDITIONAL PRIZES:

Contestants who have submitted the next 250 highest scores will receive free snorkeling gear, including snorkel, mask and fins. Contestants who have submitted the next highest 1000 scores will receive free *Imagic* T-shirts.

Total prizes, including trips, cash awards, snorkeling gear and T-shirts are valued at \$40,000. All prizes will be awarded by December 31, 1982.

7. The contest is open to all residents of the United States. Employees of *Imagic*, their advertising and promotion agencies and Carlson Marketing and members of the employees' families are not eligible.

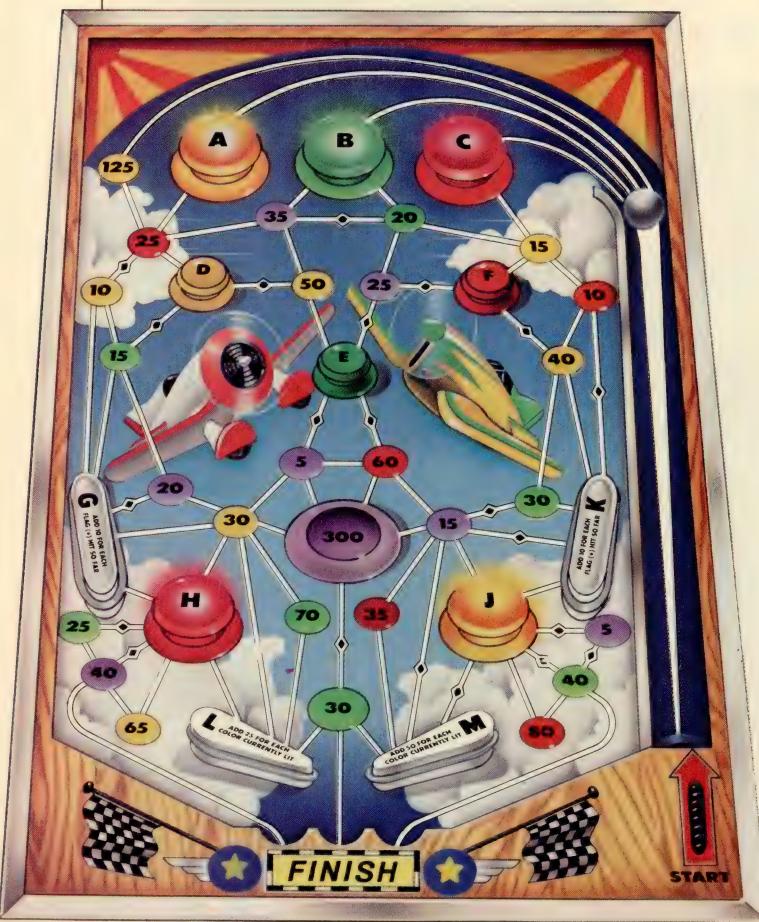
8. All participants in the Great Atlantis Shoot-Off will be required to execute an affidavit of release and eligibility and all guests of participants must execute an affidavit of release.

9. A list of winners will be furnished after December 31, 1982 to anyone who sends a self-addressed stamped envelope by November 13, 1982: Defend Atlantis, P.O. Box 82125, St. Paul, MN 55182.

10. **Contest is void wherever restricted or prohibited by law.** No correspondence will be answered. By entering the contest, participants agree that all decisions by Carlson Company regarding entries and any aspect of the contest, are final.

11. Local, state, and federal taxes, if any, are the responsibility of the winners. All federal, state, and local regulations apply.

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981 University Ave., Los Gatos, CA 95030



DEFEND ATLANTIS AND WIN ITS LOST TREASURE OF GOLD.

The fate of Atlantis is in your hands. Flying foes attack the submerged city on all sides. You command three missile installations. Track and destroy alien aircraft, or perish trying. If you're good enough, you'll compete for the lost treasure of Atlantis: a chest of \$10,000 in gold!

All you have to do is take a photo showing your score on the screen. Send it in with your entry form and the Atlantis proof-of-purchase seal from the instruction book. Only scores from the Atari® Home Video Computer System™ are eligible. You must play Atlantis game #1. See accompanying Official Contest Rules for details.

FLY TO BERMUDA.

Be one of the four top scorers to fly free with a friend or parent to Bermuda and compete in the Atlantis playoffs for the treasure chest. The three runners-up will win \$1,000 each.



Atlantis Game for Atari VCS

**OVER 1,200 PRIZES
WORTH \$40,000.**

But even if you're not one of the top four, you can still win a complete snorkeling set for being one of the first 250 runners-up. Or a "Defend Atlantis" T-shirt for being one of the next 1,000 runners-up.

Hurry. You must enter before October 24, 1982. Atlantis needs your help now!

**WIN \$10,000
THERE'S \$40,000 IN PRIZES!**

Name Age

Address

City State Zip

My score from Atlantis game #1
(Valid only with photo)

T-Shirt Size Child S M L Adult S M L

I am enclosing my photo and proof-of-purchase seal.

Mail to: "Defend Atlantis," P.O. Box 82136, St. Paul, MN 55182.

IMAGIC

Created by experts for experts™



WILD CARDS



Edited by Lisa Feder

WORDPLAY

Alma Mater Goose

You don't ordinarily need a Ph.D. to know a nursery rhyme when you see one . . . but in this case it wouldn't hurt. Can you recognize the familiar rhymes disguised in this ponderous prose?

Tap A Lightly Sweetened Bread

Bread Tap a lightly sweetened bread—do it again—you pastry chef, you! Prepare for my anabolism one such delicacy with all due haste. Tap it lightly with an open hand, perforate the upper crust with a sharply pointed instrument, inscribe thereon the 20th alphabetic element, and, finally, insert it within the enclosed baking chamber for myself and Thomas to devour.

A Small European Herring

There was a small European herring whose total volume did not exceed one quarter of a pint, who absolutely refused to ingest the adipose tissues of the animals prepared for his provender; however, his mate devoured nothing but the aforementioned portion. This combination was quite efficacious in their efforts to thoroughly engorge the edibles on which they preyed, to the point of virtually scouring the large platter whence came the viands.

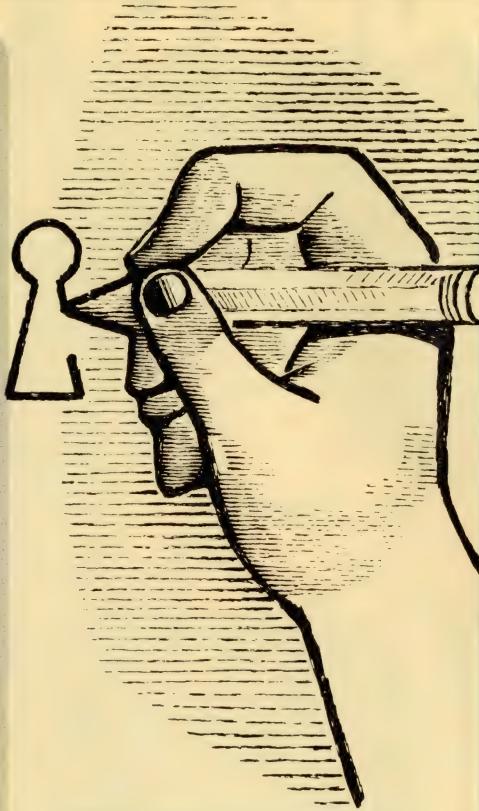
Charge for Services Rendered

Charge for services rendered, expression of displeasure, enemy, mythical Chinese bird! My olfactory apparatus detects the presence of the vascular fluids *in corpore* of an inhabitant of the British Isles! Whether his current existence may be described as animate or inanimate, I shall proceed to triturate his skeletal structure, which I will subsequently use as an ingredient in a baked victual normally prepared from grain.

—David Arns

Answer Drawer, page 72

ILLUSTRATION BY DAVID SUTER



TRAVEL GAMES

Boundary Hunter

It's been said that the Mississippi River always knows where it's going because it has four eyes (i's). But do you know its route? "Ole Miss" forms the border of 10 states, five on its east and five on its west. Can you name them?

—Raymond Love

Answer Drawer, page 72

FOR THE RECORD

Heads I Win, Tails You Lose

Without peeking at your change, can you guess on which side of the coin each word appears?

Penny: Liberty, Unum

Nickel: Pluribus, Five

Dime: Trust, America

Quarter: We, Dollar

—Louis Phillips

Answer Drawer, page 72

TEASERS

What's in Store?

Small businessmen often have grand imaginations—especially when it comes to choosing a company name. The streets of San Francisco showcase some wild ones, but as the names get droller it's less easy to figure out what services a business provides: witness these 10 examples. Can you guess what kinds of shops these are?

1. Dressed to Kill
 - a) discount poultry
 - b) used clothing
 - c) tuxedo rental
2. Sacred Grounds
 - a) parochial bookstore
 - b) university cafeteria
 - c) coffee house
3. Growing Concern
 - a) furniture reproductions
 - b) teen charm studio
 - c) barber shop
4. Prune Your Poppy
 - a) clothing alterations
 - b) gardening service
 - c) hair salon
5. Tip Toe Inn
 - a) deli
 - b) foot care
 - c) meditation studio
6. Hasbeans
 - a) used apparel
 - b) Mexican food
 - c) coffee shop
7. Seconds to Go
 - a) athletic shoes
 - b) thrift shop
 - c) clock repair
8. Endangered Species
 - a) Oriental artifacts
 - b) birds and pets
 - c) exterminator
9. Old Gold
 - a) antique jewelry
 - b) classic artifacts
 - c) coins and metals
10. Off the Wall
 - a) art dealer
 - b) commercial painter
 - c) indoor tennis

—Ralph C. Shaffer, *The New York Times*, June 6, 1982

Answer Drawer, page 72

CRUSH THE EMPIRE MEGAWARS ENLIST IN THE KRYON



MegaWars, a real-time space battle between the forces of the Colonists and the Kryon Empire. Join an intergalactic shootout with up to eight starship commanders transmitting orders from the keyboard cockpits of their craft anywhere in the U.S.A.

THE ULTIMATE COMPUTER CONFLICT

Call toll free
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Attacking, evading, scanning, communicating. That's MegaWars. Easy to learn but difficult to master. That's why CompuServe will give one free hour to every MegaWars player entering a game before December 31, 1982.

You'll receive the illustrated guide to CompuServe, America's most comprehensive Videotex service, plus the MegaWars Commanders Briefing.

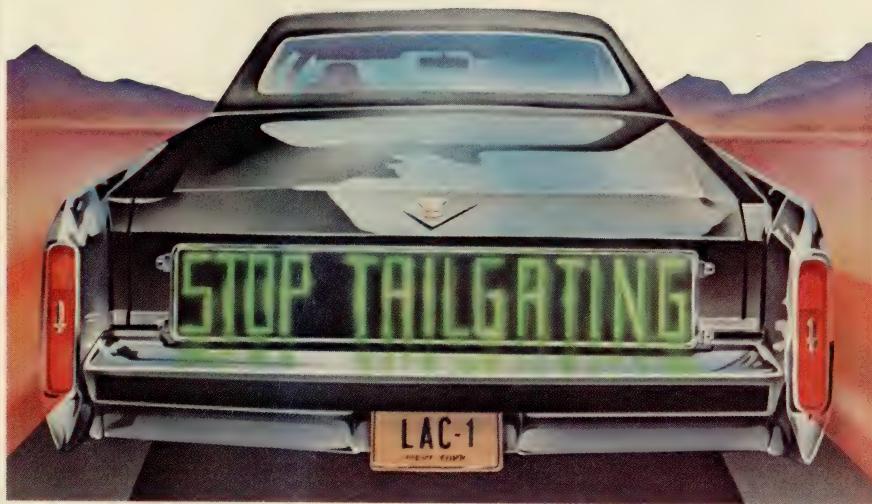
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THE ELECTRONIC BUMPER STICKER



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Forget paper bumper stickers that clutter your fenders with dull, quickly outdated messages. Beautiful, high-tech FLASHERS® spell relief from highway boredom and tell the world you're king of the road.

Easy to Install Simply bolt panel to rear and/or front of car. Attach alphanumeric keyboard to your dashboard. You can preprogram your messages, or type them when inspired.

Maintenance Free Fluorescent light strips last virtually forever.

Many Models to Choose From Panels come in small (for compact cars), medium, and large (for vans and trucks).

Parlay your driver's license into a poetic license with Flasher messages like:

ROAD HOG

TURN OFF YOUR BRIGHTS

RADAR TRAP AHEAD

DEATH VALLEY IS FOR LOVERS

WARNING: I SPEED UP FOR RABBITS

I'M A MEMBER OF THE IMMORAL MINORITY

QUIT RUBBERNECKING, YOU JERK

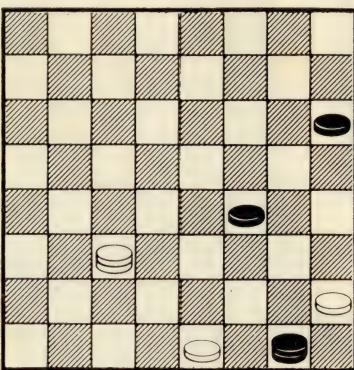
I FOUND IT. WANT SOME?

Order today from: FLASHERS, Fork in the Road Rd., Soft Shoulder, Utah.

TWISTS

Checker Out

This American checkers problem was composed by L. J. Vair of Denver, also known as "The Kolorado Kowboy." White, moving up the board, is to play and win.



—from *Let's Play Checkers* (David McKay Co., Inc.) © 1968 by K. Grover and T. Wiswell

Answer Drawer, page 72

FOR THE RECORD

Space Age Mythology

Whether you're a stellar scholar or a rocket aficionado, you know that space launches are more than flights of fancy. But many of the names for missions and spacecraft are derived

from mythology. Eight of them are clued below, once for the scholar and again for the science buff. Which are you? And can you name all eight?

Clues for Classicists

1. Norse god of thunder
2. Bore the weight of the world
3. Messenger of the gods
4. Also called Phoebus; often associated with the sun
5. Castor and Pollux
6. Goddess carved by Praxiteles
7. Often called Kronos, and shown with a scythe
8. Ares's Roman counterpart

Clues for Scientists

1. Launched Telstar and Early Bird
2. Missile that launched John Glenn into orbit
3. First U. S. manned mission
4. Three-man craft for lunar landings
5. Second U. S. manned mission
6. Russian probe; first craft to photograph the surface of another planet
7. Largest U. S. launch vehicle ever built; shot astronauts to the moon
8. Launched and orbited with Mariner IX; crash-landed in May '71

—Trudy Bell

Answer Drawer, page 72

NO KIDDING**Hyde and Seek**

Hey, wait a minute! It may seem this rambling. Once you've done as though these instructions have what you're supposed to do, send been ignored by our proofreaders. it to us at the *Games* department. Don't be fooled, though. Don't spelled out by the first letter you see there's more to this chal- of every sentence in this Wild lenger than meets the eye? Even Card. Now for the instructions. though it may not look that way at (Thought we'd never get to them, first. Narrow-minded readers may eh?) Easy. Simply send us a have turned the page by now but clipping (or photocopy of same) of some of you who have read this far an unintentional printed error. will be rewarded. Cause we're The funniest 20 we receive by 11/ about to reveal the point of all 10/82, will win *Games* T-shirts.

FOR THE RECORD**The Age of Amadeus**

You can determine Mozart's age at the time he wrote any of his 626 compositions just by noting the Köchel number assigned to the piece. Use this formula: $K \div 25 + 10$. So Mozart was 27 when he wrote the "Coronation Mass": $427 \div 25 + 10 = 27$.

—Don Wigal

CARD GAMES**What's the Big Deal?**

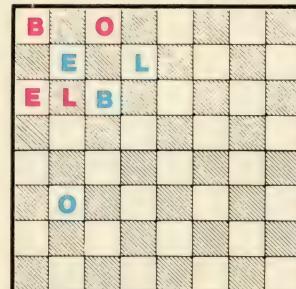
Three cards are dealt face-down: A diamond lies to the left of a spade, a two to the right of a jack, a nine to the left of a club, and a club to the left of a spade. What are the cards?

Answer Drawer, page 72

TWISTS**Crypto-Chess**

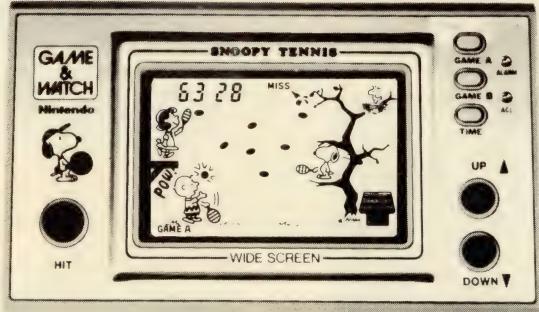
On this chessboard, each letter stands for one chessman and neither color has two identical men. Try to determine which man each letter represents, and then play out the game so that White mates Black in one move.

—Alex Dunne



Answer Drawer, page 72

**LATEST
VIDEO GAME
CRAZE!**



Video Game Action in the Palm of Your Hand

Experience the latest in video game entertainment with **Game & Watch** — action packed, palm sized video games by Nintendo. Rescue parachuting divers from hungry killer sharks with "Parachute", or create tennis madness with Charlie Brown and Snoopy in "Snoopy Tennis". All games feature mini L.C.D. screen with multiple skill levels, complete with super sound effects. And, each game functions as an alarm clock with built-in stand. The price is just \$28.95 plus postage and handling. Order your **Game & Watch** today!

Mail to **LANDMARK**

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YES, please rush me the amazing new **Game & Watch**. I've enclosed \$28.95 per game plus \$2.50 postage and handling. Calif. residents add 6% sales tax.

My name is _____

I live at _____

City _____ State _____ Zip _____

Indicate Choice

Parachute Snoopy Tennis Both

ANSWER DRAWER

4 Your Move

Fielder's Choice

He grows soybeans in field five and oats in field two.

Word Powers

- bad, (e) sorrowful, sorry
- bays, (h) honor, fame
- beard, (d) oppose with boldness
- blast, (c) shrivel, wither
- fat, (b) stupid, foolish
- get, (j) progeny of a male animal
- hand, (g) skill, ability
- jump, (a) coincide, agree
- low, (i) flame, blaze, glow
- throw, (f) fashion or frame

Shuffling Off

The order after one shuffle would have been: 7, 6, 10, A, K, J, 2, Q, 4, 5, 8, 3, 9

43 The Idiot Box

ACROSS

- Kung Fu
- Batman
- Harry-O
- Family
- Dallas
- Cannon

DOWN

- Quincy
- Benson
- Mannix
- Lassie
- Topper
- F Troop

Quote: "Television is like chewing gum for the mind."—Frank Lloyd Wright.

29 All Thumbs

- Thumbs up
- Thumbnail sketch
- Green thumb
- Rule of thumb
- Thumb a ride
- Thumbscrew
- Thumbelina
- Thumbtack
- Under one's thumb
- Thumb one's nose
- Twiddle one's thumbs
- Tom Thumb
- Thumb index
- Stick out like a sore thumb

40 Domino Logic

5	3	2	2	1	1	1	0
1	0	6	3	0	5	6	4
4	3	5	4	2	3	1	5
4	6	6	1	5	5	2	2
4	0	5	1	3	6	6	0
2	4	5	2	2	3	3	0
6	0	3	4	1	0	6	4

11 Gamebits

Bound for Glory

Along with the wave design, Gouey has created a progressive bird pattern, starting with one to four

41 Cryptic Crossword

ACROSS

- Enigmas (mine gas)
- Wagered (wage + red)
- Technical (line catch)
- Empty (my pet)
- Abroad (b + a + road)
- Seashore (ashes + ore)
- Timberline (Berlin + time)
- Nuts (stun)
- Tide (tied)
- Messengers (mess + greens)
- Bulletin (bull + E.T. + in)
- Shower (two meanings)
- Cased (AmeriCA'S EDUCators)
- Nicaragua (iguana + car)
- Obscene (O.B. + scene)
- Rodents (snorted)

DOWN

- Entrant (tournamENT RAN Third)
- Incur (in + cur)
- Mandates (man + dates)
- Sock (two meanings)
- Wilderness (winds reels)
- Grease (agrees)
- Reproduce (pro + reduce)
- Dryness (dress + NY)
- Allegiance (e.g. + alliance)
- Medalists (made + lists)
- Anchored (and + chore)
- Tobacco (Cabot + co.)
- Spreads (press + ad)
- Needle (NEEDLEssly)
- Wagon (wag + on)
- Scar (SCholAR)

39 Happy Haunting Ground



small gulls (left), then adding larger ones, and ending with a giant gull spanning the last four books.



12 Tweedledum or Tweedledee

Round 1

If the speaker were telling the truth, then he would be Tweedledum and he would be carrying a black card. But he cannot be speaking the truth and also carry a black card. Therefore he must be lying. This means his card really is black, and since his statement is false, he is not Tweedledum carrying a black card. He is Tweedledee carrying a black card.

Round 2

The speaker asserts that he is not Tweedledum carrying a red card. His assertion must be true, for if he were Tweedledum carrying a red card he couldn't lie and say he is not Tweedledum carrying a red card. So it is true that he is not Tweedledum carrying a red card. Since his statement is true, he must in fact be carrying a red card. And since his statement is true and he is not Tweedledum carrying a red card, he must be Tweedledee carrying a red card.

Round 3

If the speaker were carrying a black card, it would be true that either he is Tweedledum or he is carrying a black card, which would mean that a holder of a black card made a true statement. This is impossible, so his card cannot be black. Since his card is red, his statement is true, which means that either he is Tweedledum or his card is black. Since the second alternative doesn't hold, he must be Tweedledum.

Round 4

If the first one were holding a red card, we would get the following contradiction: If his statement is true, then his brother is Tweedledee, so he is Tweedledum. Thus he is Tweedledum carrying a red card. This makes the second one's statement true. But then, how could the first one, who is truthful, lie and say that his brother is Tweedledee holding a black card? So it is impossible that the first one is carrying red; he must have a black card.

Since the first one is not red, the second one's statement cannot be true; so the second one is also carrying a black card. If the second one were Tweedledee, he would be Tweedledee carrying a black card, which would make the first one's statement true. But the first one's statement is false (because he is carrying a black card); so the second one can't be Tweedledee. This proves that the first one is Tweedledee.

Round 5

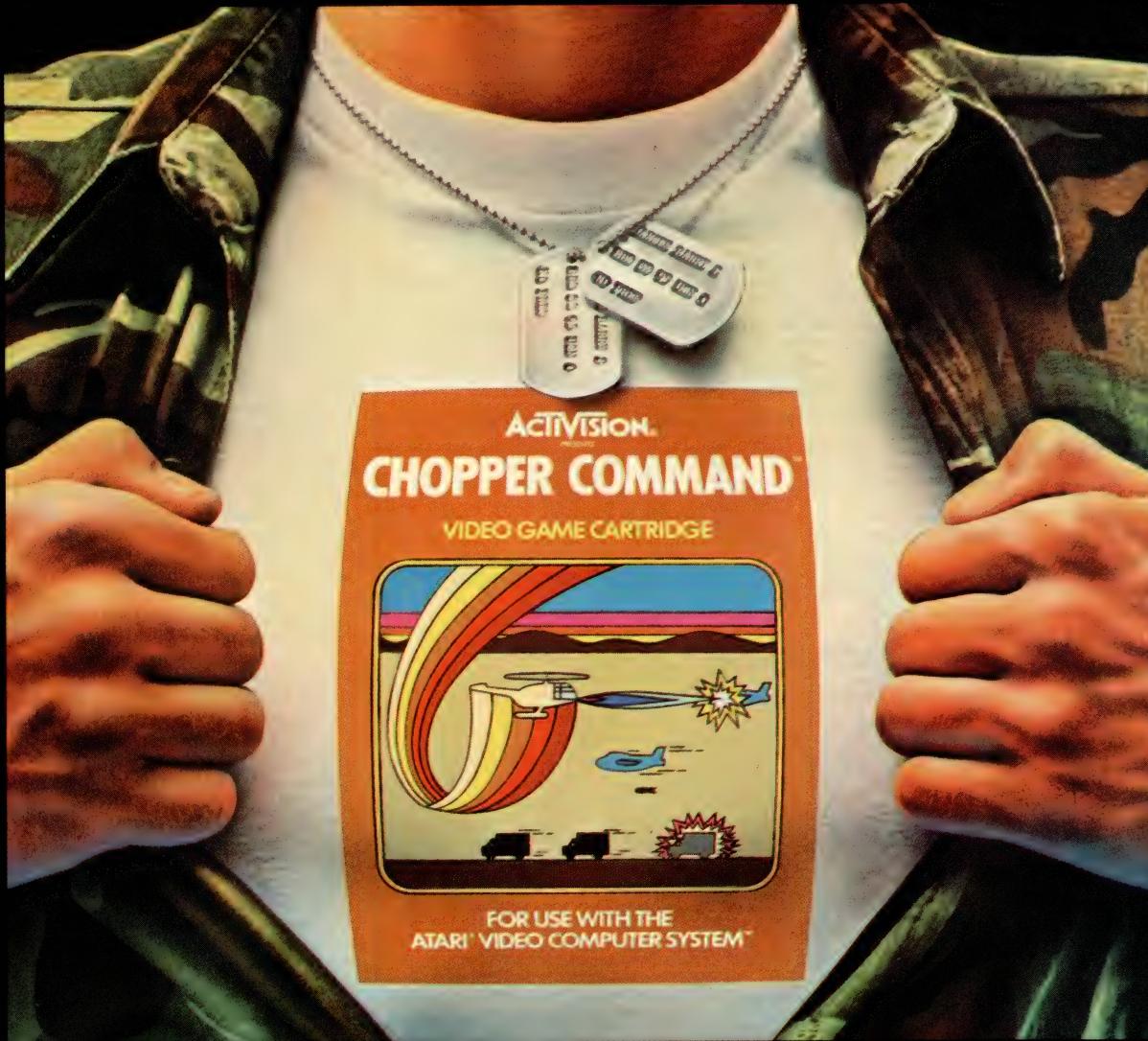
Many questions can be devised that will do this; the simplest is, "Is your card red?" Whatever sign was given in answer must mean yes, because one with a red card would truthfully say it is red, and one with a black card would lie and claim his card is red. Suppose the brother had responded by drawing a square in the air. Then he means yes by a square; hence he has the prize. If he responded by drawing a circle, then he means yes by a circle and no by a square, so he doesn't have the prize. In summary, if he draws a square he has the prize; if he draws a circle, the other one has the prize.

From *Alice in Puzzle-Land* (William Morrow and Company, Inc.), copyright 1982 by Raymond M. Smullyan.

Fake Advertisement

The "Fake Ad" announced in the Table of Contents was for the Flashers and appeared on page 64. Illustration by Richard Timperio.

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Question is, Mister, "What've you got?"



ENEMY ATTACK.



LONG-RANGE RADAR.

ACTIVISION
WE PUT YOU IN THE GAME.

ANSWER DRAWER

29 Kiddie Lit



42 Double Cross

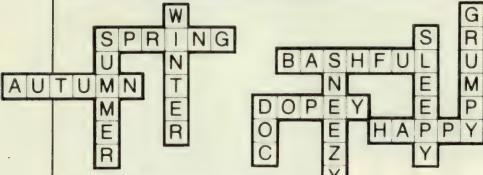
A. VESTIBULE	N. OPEN SECRET
B. LICHEN	O. VOLCANIC
C. ATTRACTION	P. SHRINER
D. DRABBET	Q. POSTHASTE
E. INFIDELITY	R. ETHEREAL
F. MENTHOL	S. AWEATHER
G. INJECTED	T. KOWTOW
H. RHETT	U. MOTHBALLS
I. NEW WORLD	V. ENCHANTED
J. ABBREVIATE	W. MATCH
K. BITTEREST	X. OPPOSES
L. OBFUSCATE	Y. RHINE
M. KNOW-HOW	Z. YOUTHFULNESS

Competition in chess problems is not really between Black and White, but between the composer and the hypothetical solver: just as in a first-rate work of fiction the real clash is not between the characters involved, but between the author and the world.—Vladimir Nabokov, *Speak Memory*.

6 Laundry Basket

We were only kidding about there being no mistakes in the September issue; it's just that with our new monthly deadlines, we haven't heard about them yet. No one here admits knowing whether the misspelling of incompetence in "Incompetance Strikes Again" was intentional or not; it was never laundered. We do know we misspelled misspell. And we threw in that reference to the "Answer Basket" just to see if you were awake.

27 Cross Sets



1. Four seasons

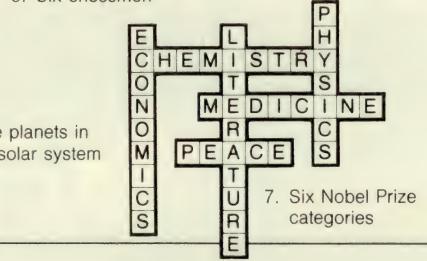
3. Seven Dwarfs

2. Five Great Lakes

6. Seven colors of the rainbow

5. Six chessmen

4. Nine planets in the solar system



58 Animal Eyeball Benders

1. Burrowing owl
2. African elephant
3. River hippopotamus
4. Black rhinoceros
5. Giant anteater (half credit for aardvark, with broader snouts and less fur)
6. Camel (or dromedary)
7. Seal lion (half credit if you guessed seal)
8. Llama
9. Zebra
10. Polar bear
11. Buton Hornbill (half credit if you guessed macaw or toucan)
12. Sumatran orangutan (distinguished from other apes by shaggy russet-brown hair)
13. Angolan roan antelope (half credit for gazelle)
14. Baringo giraffe
15. Scarlet macaw
16. Lowland gorilla (distinguished from other apes by massive head, prominent brows, small eyes and ears, large nostrils)
17. Alligator

33 Front Runners

A. He's Met His Match

1. OM/aha
2. BRI/bed
3. D/well
4. GRO/under
5. E/motion

BRIDEGROOM

B. What a Gasser!

1. TOR/rent
2. CE/real
3. RA/spy
4. AC/quaint
5. LE/groom

ACCELERATOR

C. It's Elementary

1. TR/actor
2. HE/brew
3. MIS/chief
4. Y/awning
5. C/rickets

CHEMISTRY

D. Go for a Spin

1. HEL/met
2. O/range
3. P/resident
4. IC/eland
5. TER/minus

HELICOPTER

48 Sports Quiz

1. (c)
2. Julius "Dr. J" Erving (b) operates on his opponents like a surgeon. "Mean" Joe Greene (a) is a ferocious football player. "Marvelous" Marv Throneberry (b) was a terrible baseball player. Wilt "The Stilt" Chamberlain (a) seemed to play on stilts. Gordie "Blinky" Howe (a) blinks frequently because of a hockey injury. "Paw Paw" Charlie Maxwell (a) was raised near Paw Paw, Michigan.
3. If a player scores in his own net, the other team receives credit for it; the score is 3-3.
4. The following are real teams: (a) Chicago Sting (soccer); (c) Utah Jazz (basketball); (e) Seattle Seahawks (football); (f) Los Angeles Lakers (basketball); (g) Calgary Flames (hockey); (j) Toronto Blue Jays (baseball).
5. Ron Duguay 1. (c); Kareem Abdul-Jabbar 2. (f); O. J. Simpson 3. (b); George Steinbrenner 4. (a); Pelé 5. (d); Pete Rose 6. (e)
6. (a) 12½ minutes.
7. (d) "I'm certainly no expert . . ."
8. (a) Punt: football; a kick after dropping the ball from the hands. (b) Jump ball: basketball; to start the action, the referee tosses the ball between two players who try to tap it to teammates. (c) Beanball: baseball; a pitch thrown deliberately at a batter's head. (d) Slap shot: hockey; a very hard shot taken with a long backswing of the stick. (e) 360° slam dunk: basketball; a violent dunk shot made after the dunker has completed a full helicopter-like rotation in midair. (f) Bomb: football; a long pass. (g) Billyball: baseball; an aggressive style of play named after its proponent, Billy Martin. (h) Goon: hockey; a player whose main talent lies in beating up opposition players. Goons are the butt of the following joke: "The other night I went to a fight and a hockey game broke out." (i) Blitz: football; a rush at the quarterback at the snap by linebackers or defensive backs. (j) In your face, chump: basketball; a term of derision uttered by a player after making a shot despite close guarding. (k) Shootout: American soccer; when a game is still tied after overtime a series of shots on goal taken alternately by both teams. The team that makes the greatest number of these shots wins.
9. (a) The batting average is .300; (b) the earned run average is 1.00; (c) the player pays no taxes; he's rich enough to hire a good accountant.
10. The true statements are: (a) O. J. Simpson appeared in *Roots*; (c) Merlin Olsen stars in "Father Murphy"; (e) Joe Namath starred in "The Waverly Wonders."
11. (c) The quarterback is dodging humongous linemen while trying to pass the ball. (Dandy Don is a sportscaster and sells tea in TV commercials.)
12. (a) baseball; (b) basketball; (c) football
13. (a) Quarterback is throwing basketball instead of football; there is no 60-yard line on a football field. (b) Julius Erving is dribbling soccer ball instead of basketball; his number is 6, not 8. (c) Pitcher is tossing football instead of baseball; the fence should read "ft." not "yds." (d) The hockey player is skating with baseball instead of puck; in background the referee isn't wearing skates.
14. a = 4, b = 6, c = 2, d = 3, e = 3, f = 10; (a + b) (c + d) f (a + e + f) = 8,500
15. According to reliable sources, Ronald Reagan did play football for Eureka College. According to unreliable sources, he believed in following a conservative game plan with an emphasis on a strong defense, limited tactical use of the bomb, and running the ball to the supply-side of the field.
16. (a) Babe Ruth played most of his career with the New York Yankees. (b) Players use their heads in soccer. (c) The NHL championship playoff series is called the Stanley Cup. (d) The Celtics play basketball in Boston. (e) Relief pitchers warm up in the bullpen. (f) Jackie Robinson broke baseball's color line. (g) A field goal counts for three points. (h) A football guard plays on offense. (i) There are six men to a side in hockey. (j) The top of the rim of the basket must be 10 feet from the floor.

ANSWER DRAWER

51 Cryptotiles

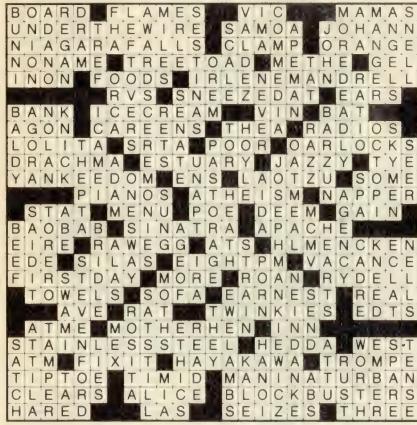
S	P	A	T	S
C	U	B	I	C
A	R	O	M	A
N	E	V	E	R
S	E	E	D	Y

C	O	M	E	T
O	P	E	R	A
W	I	S	E	R
E	N	A	C	T
R	E	S	T	S

S	A	L	A	D
E	L	O	P	E
D	I	V	A	N
A	V	E	R	T
N	E	S	T	S

A	G	L	O	W
B	R	A	V	O
B	O	X	E	R
O	P	E	N	S
T	E	R	S	E

45 Odds and Ends



56 Games & Books

Toads-and-Frogs

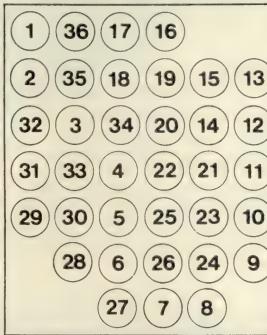
Left (the player with the Toads) should win, regardless of who moves first. If Left moves first, he must move a Toad on either the top, second, or bottom row; if instead he begins by jumping a Frog, he will lose. On subsequent turns, he should avoid jumping unless forced to do so. To be fully convinced of this answer, you may need to learn from the book how to calculate the value of the position in each row, as well as the value each row would have if either player moved first in it. Then the task is reduced to choosing the move that results in the most favorable, or least unfavorable, change in value to each player's side.

43 Digitis

$$\begin{array}{r}
 9 \ 0 \ 9 \ 9 \ 0 \ 8 \ 0 \ 9 \\
 12 \quad | \quad 1 \ 0 \ 9 \ 1 \ 8 \ 8 \ 9 \ 7 \ 0 \ 8 \\
 \underline{1 \ 0 \ 8} \\
 \quad \quad \quad 1 \ 1 \ 8 \\
 \quad \quad \quad | \ 0 \ 8 \\
 \quad \quad \quad 1 \ 0 \ 8 \\
 \quad \quad \quad | \ 0 \ 8 \\
 \quad \quad \quad 9 \ 7 \\
 \quad \quad \quad | \ 9 \ 6 \\
 \quad \quad \quad 1 \ 0 \ 8 \\
 \quad \quad \quad | \ 0 \ 8 \\
 \quad \quad \quad 0
 \end{array}$$

53 Odd & Even

A perfect solution to Odd solitaire is shown. We have yet to find a solution that begins in a different corner.



40 Think Under Pressure?

1. The letter X should be crossed out in the first sentence.
2. The word "gaiety" should be circled.
3. The stack contains 25 cubes.
4. The square should be left empty.
5. The blank should contain your correct age.
6. 10g, 10f, 5g, 1g.
7. The space should contain the word DOG.
8. The next space should be empty.
9. The next space should contain the word NO.
10. The word GOLF should appear in the next space.
11. The next blank should be empty.
12. True.
13. Thursday.
14. MADAM, MEDIUM, MOM, MUM, MUSEUM. Many other answers are possible.
15. Uncle.
16. The square should contain a check.
17. 2:36.
18. The word ICE should be written at the bottom of the page.
19. Eleven.
20. The words I QUIT should appear at the end of the sentence.

Scoring: Count 1 point for each correct answer. The maximum score is 20 points.

Ratings: 20 points—Ace. You work exceptionally well in situations requiring rapid and tricky brainwork. Unfortunately, this skill has no positive correlation with income. 18-19 points—Excellent, indeed. You maintain a cool head and sharp wits when others are losing theirs. 16-17 points—Very good. You can fill out an IRS 1040 on time without the help of H & R Block. 14-15 points—Good. You can slip tab A into slot A. 10-13 points—Fair. But sometimes you are confused by tricky instructions and sometimes even by not so tricky instructions. Under 10 points—Try another quiz.

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3

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(See sample below).

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Look at the label on this issue's cover for your new expiration date. The expiration date indicates the last issue of your subscription.

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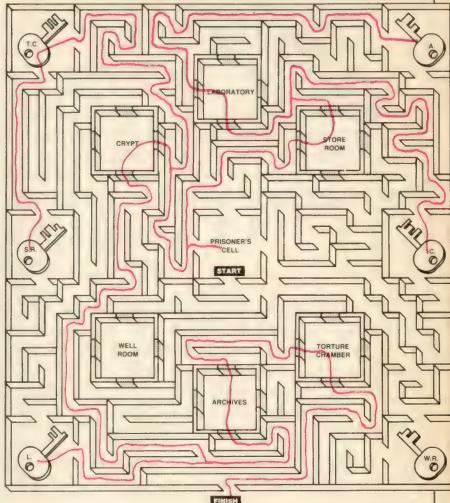
You will still receive the same number of issues you paid for. But now each issue of GAMES will arrive monthly (instead of every-other-month).

31 Boo!



28 Keys to the Dungeon

The order in which locked rooms and key rooms must be visited is: Start, TC key, SR key, TC key, Store Room, C key, Store Room, Crypt, L key, Crypt, Store Room, Laboratory, A key, Laboratory, Store Room, Crypt, Archives, Torture Chamber, Finish. The correct path, some sections of which must be retraced several times, is shown in red.



46 Picture Palindromes

1. Snack cans	6. Gateman's
2. Navy van	nametag
3. Trapeze part	7. Space caps
4. Too fat	8. Goldenrod-
a foot	adorned log
5. No lemons,	9. Party booby
no melon	trap

Acknowledgments to "Rats Live on No Evil Star: The BackWords Puzzle Book" by Joaquin and Maura Kuhn for some of the palindromes used in this puzzle.

30 The Unicorn

The leftover letters spell:
One by one in the moonlight there,
Neighing far off on the haunted air,
The unicorns come down to the sea.
—from a poem by Conrad Aiken

G

A

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Halloween Cover

From top, generally left to right:

- tree branches both in front of and behind castle tower
- bat has frog body
- window in bush
- left rear castle tower is a pencil
- turret roof is concave
- stairs lead nowhere
- perspective of window in lower right of castle is reversed
- right part of castle is a rocket
- crescent moon facing wrong way, since light source (the sun) is on the left
- Darth Vader head on tombstone
- TV set on tombstone
- Hitchcock's profile on TV facing wrong way
- chain on castle gate doesn't connect
- Batman mask with Superman sweatshirt
- Batman's right leg casts shadow in wrong direction
- no handles on Batman's trick-or-treat bag
- watch and tree trunk from Dali painting coming

- out of tombstone base
- floating headstone (in front of fence)
- shafts of spears in fence change shape
- jack-o'-lantern has floating lid
- tombstone next to it loses top right edge
- Egyptian mummy in open tomb
- bush cut in half by tombstone
- kid dressed as cowboy wearing Indian headdress
- headdress has knife in it
- witch with mermaid's tail on trick-or-treat bag
- cowboy's right spur is backward
- Dracula has no gravesite, and his tombstone here shows Bela Lugosi's dates
- reflection of tombstone in puddle at incorrect angle
- jack-o'-lantern is fishbowl
- skeleton forearm should have two bones, upper arm one
- base of Weiss tombstone has optical illusion
- R. I. P. dates reversed on front tombstone
- lightbulb on left foreground tombstone

WILD CARD ANSWERS

Alma Mater Goose

1. Pat-A-Cake

(Tap A Lightly Sweetened Bread)

Pat-a-cake, pat-a-cake, baker's man! Bake me a cake as fast as you can. Pat it and prick it and mark it with a T, put it in the oven for Tommy and me.

2. Jack Sprat (A Small European Herring)

Jack Sprat could eat no fat, his wife could eat no lean; And so, betwixt them both, they licked the platter clean.

3. Fee, Fi, Fo, Fum

(Charge for Services Rendered)

Fee, fi, fo, fum, I smell the blood of an Englishman! Be he live or be he dead, I'll ground his bones to make my bread.

—from *Mother Goose, Ph.D.*
© 1982 by David Arn

Boundary Hunter

On the east, the Mississippi borders Minnesota, Iowa, Missouri, Arkansas, and Louisiana. On the west, it borders Wisconsin, Illinois, Kentucky, Tennessee, and Mississippi.

Heads I Win, Tails You Lose

Penny: Liberty, heads; Unum, tails
Nickel: Pluribus, tails; Five, tails
Dime: Trust, heads; America, tails
Quarter: We, heads; Dollar, tails

What's In Store?

- (b) used clothing (Dressed to Kill)
- (c) coffee house (Sacred Grounds)
- (a) furniture reproductions (Growing Concern)
- (c) hair salon (Prune Your Poppy)
- (a) deli (Tip Toe Inn)
- (c) coffee shop (Hasbeans)
- (b) thrift shop (Seconds to Go)
- (a) Oriental artifacts (Endangered Species)
- (b) classic artifacts (Old Gold)
- (a) art dealer (Off the Wall)

Checker Out

In standard American checker notation, the squares in play are numbered as shown:

	1	2	3	4
5	6	7		8
9	10		11	12
13	14	15		16
17	18	19		20
21	22	23		24
25	26	27		28
29	30	31		32

The solution is 22-26, 12-16, 28-24, 19-28, 26-23, 16-20, 31-27 and wins.

Space Age Mythology

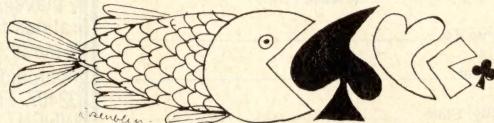
1. Thor	5. Gemini
2. Atlas	6. Venus
3. Mercury	7. Saturn
4. Apollo	8. Mars

Crypto-Chess

L=King; O=Knight; B=Bishop; and E=Pawn. The mate is b7xc8(N) mate—Pawn takes Knight, promoting to Knight, checkmate.

What's the Big Deal?

The nine of diamonds, jack of clubs, and two of spades.



20 Hitchcock Frenzy

The cameos:

Top row, from left, *Family Plot*, *Notorious*, *Lifeboat*.

Middle row, from left, *Stage Fright*, *Psycho*, *Rebecca*, *North by Northwest*.

Bottom row, from left, *The Birds*, *Strangers on a Train*, *Foreign Correspondent*.

The props:

On the table, from left, camera (*Rear Window*), film cans (*The Lodger*, *Foreign Correspondent*), scissors cutting eye on curtain (*Spellbound*), handcuffs (*The Thirty-Nine Steps*), film cans (*Stage Fright*, *Saboteur*), the book *Goodbye Piccadilly, Farewell Leicester Square* (on which *Frenzy* is based), Egyptian statue (*The Lodger*), package with label "Bartholomew the Strangler" (*Saboteur*), the book *Child Psychology* (*Suspicion*), diamond necklace (*To Catch a Thief*), broken glasses (*Strangers on a Train*), Statue of Liberty (*Sabotage*), typewriter (*Lifeboat*).

Hanging, upper right, stuffed owl (*Psycho*), tie and "R" tiepin (*Frenzy*).

Photo credits: *Notorious*, *Lifeboat*, *The Birds*, and *Strangers on a Train*, Museum of Modern Art/Film Stills Archive; *Stage Fright*, *Rebecca*, and *Foreign Correspondent*, Penguin Photo.

41 Cryptic Warm-Up Puzzle

ACROSS

1. PALS. The word PALS (defined as "friends") is SLAP ("strike") reversed. The word "back" indicates cryptically that SLAP is to be entered backwards.
5. LESSENS. The word LESSENS ("reduces") sounds the same as LESSONS ("homework assignments"). The phrase "we hear" indicates that the answer is a homophone of the adjacent word, LESSONS.
6. SEEKING. The answer, SEEKING ("going on a hunt"), is a combination of SEE ("watch") and KING ("monarch").
7. AYES. The word AYES ("votes for") is HAYES ("President after Grant") beheaded, or missing its first letter.

DOWN

1. POLISH. The word POLISH in two different senses means "wax" and "from Warsaw."
2. LISTEN. The word LISTEN ("to hear a speech") is an anagram of SILENT. The word "turned" suggests the mixing of letters.
3. VERIFY. The answer, VERIFY ("to give proof"), is hidden in the phrase "driVER IF Young." The word "has" suggests that the phrase preceding it contains the answer.
4. USAGES. If the word SAGE ("wise man") is put into, or "goes through," U. S., the result is USAGES ("customs").

32 Dszquphsbt!

1. CRYPTOON. I really had it finished at the Brooklyn Bridge, but I don't get off till Flatbush Avenue.
2. ENTOMOLOGY. Happiness is a butterfly. The more you chase it, the farther it flies. But look away, and it comes and sits on your shoulder.
3. BASIC DRIVING SKILL. Every motorist eventually learns this fundamental proposition—the easiest way to refold a road map is differently.
4. THE REAL YOU. As they say in Hollywood: Just scrape away the phony tinsel, friend, and underneath you will find the real tinsel.
5. WISH FULFILLMENT. Millions long for immortality who have no idea what to do with themselves on a rainy Sunday afternoon.
6. ROADBLOCK. Many a hiker has noticed that his biggest obstacle was not the mountains he tackled, but the grain of sand in his shoe.
7. PERFORMANCE EVALUATION. Have you ever noticed that after all is said and done, there usually is a whale of a lot more said than done?

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